SWEETS NEWS AND PRODUCTS

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Highlights from Design & Construction Week

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LTL Architects designs playground structures

UNDER CONTROL

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MARCH/APRIL 2015 READ THE DIGITAL EDITION OF SNAP AT SWEE

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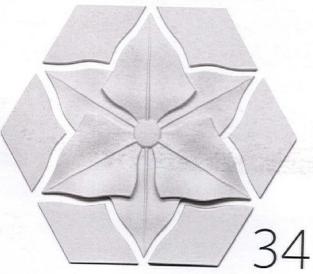


Men

Richard Welsh Library New School of Architecture & Design 1249F St., San Diego, CA 92101

MARCH/APRIL 2015





CLOCKWISE FROM ABOVE

The Architectural Team converted a former Boston Public Library branch into a Boys & Girls Club center for at-risk teens. Franke's Ambient kitchen faucet is as sculptural as it is functional. Concrete goes high-style thanks

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9 IN BRIEF

UL launches search tool for specifiers. Wilsonart Challenge winner and finalists unveiled. A look at the American pavilion for Expo Milan. Sloan provides efficient fixtures for Cubs training facility.

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Design & Construction Week builds on its inaugural success, with new partners, new products, and a boost in attendance.

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Grimshaw's Juan Porral on the materials palette for his renovation of the Queens Museum in New York and a project currently in the works.

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SNAP asks Randall Scott, an associate at TPG Architecture in New York City, about the latest product buzz in his region and the industry.

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Spring Ahead



SOME OF US ARE just starting to experience the spring thaw at press time, but better late than never. As we cheer the annual rebirth of plants and trees, it turns out, this issue of SNAP shines a light on the rejuvenation of buildings.

"Time and Time Again" (page 16) features three adaptive reuse projects in which architects delicately balanced the old and the new so they could meet program and code requirements while preserving history. In a similar vein,

Case Study (24) explores the newly revamped Cooper Hewitt, Smithsonian Design Museum in New York City. A select group of firms among them Gluckman Mayner, Beyer Blinder Bell, and Diller, Scofidio + Renfro—meticulously restored and expanded the former Carnegie mansion, bringing the art path, exhibit designs, and old-school infrastructure up to date. Well versed in museum renovation, **Grimshaw** Architects modernized another New York institution: the Queens Museum in Flushing Meadows Corona Park. Firm partner Juan Porral comments on that project, as well as another under way, in this edition's Profile (21).

It may only be the beginning of the season, but it's never too early to enjoy some fun in the sun. In Partners in Design (148), we showcase Free Play, a young company that recently launched a quartet of truly original jungle gyms conceived by LTL Architects.

Happy spring!

SHEILA KIM Editor



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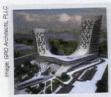
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Inbriet

"When people look at it, they'll instantly understand exactly how it was made...kind of like a barn frame"

-JAMES BIBER, ON THE DESIGN OF THE USA PAVILION FOR EXPO MILAN

SNAP MATH

60%

Percent of all American furniture that was made within 150 miles of High Point, North Carolina, during the postwar era.

SOURCE: HIGHPOINTMUSEUM.ORG

MEWS BRIEFS

Getting It Right

INSPIRED BY GOOGLE, a team at Underwriters Laboratories (UL) has developed a search tool for its evaluated and certified products. Naturally called Product Spec, "it's for architects, specifiers, designers, inspectors, and installers," says Al Ramirez, regional manager of Regulatory Services at UL. "We're trying to get them accurate information so that a product is appropriate for their use and design."

Product Spec offers three ways to find the correct product and certification. Users can enter one of 20 building codes, a specifier's coding system like MasterFormat, or a product attribute such as "elevator" or "fire." If a searcher is looking for a roofing shingle with a particular fire rating, say, this database will swiftly direct the user to products that match the requested standards.

The database is broken down into 2,500 categories with 34 different editions. Most of the technical data were pulled from the extensive information banks on ul.com and from other entities acquired by UL. Among them is Greenguard, the product certification organization that focuses on sustainability and air quality.

"Product Spec relies on a very complex database that we monitor, develop, and add to as codes and specifications change," Ramirez says.

The UL team worked on the development of Product Spec for a decade before finalizing the tool last year and officially launching it in February. The result is a database that can be searched via desktops, tablets, and smartphones. "There was an obvious need to provide information in a way that's easy to access," Ramirez says. Best of all, it's totally free. - J. Michael Welton



SCREEN SAVER A view to the new UL search tool Product Spec, formatted for tablets.





Sitting Pretty

WHAT DOES NORTH CAROLINA epitomize to you? That's the question the Wilsonart Challenge posed to student designers from Appalachian State University in Boone, North Carolina. Now in its 11th installment, the annual competition gives undergraduates of a select college the opportunity to transform their concepts into chairs.

The rewards are many. At each step of the design process—from creative vision to assembly—students receive ample coaching and critiquing from instructors. And finally, the winner and runners-up get the thrill of seeing their work displayed at the International Contemporary Furniture Fair (ICFF) in New York City, all while maintaining rights to their intellectual property.

This year's theme was regionalism. The brief, as always, was to create a showstopper of a design: a striking example of bespoke seating that's both photogenic and outstanding among a sea of distractions at ICFF. It must also demonstrate the







versatility of Wilsonart laminate as a material.

In designing Blossom, the 2015 winner, Samantha Lilly took inspiration from the state tree, the dogwood—in particular, the cruciform shape of its flower, whose curves are echoed in the chair's base. Lilly utilized the most laminate of all the entrants when arranging laser-cut laminate in a marquetrylike pattern (she applied Persian Cherry and Antique White to a wood substrate frame).

The six runners-up, whose chairs will also be shown at ICFF, interpreted the Appalachian region's landscape and culture as well. Each project was based on extensive research: For her Hem chair, Lyndsie White explored the seated posture of residents relaxing on porches and stoops. Looming, by Byron Dollar, references the state's rich legacy of textile manufacturing. John Waters incorporated hooks on the (continued)







Appalachian State University student Samantha Lilly, seen here on her Blossom chair (also top right), wonthis year's Wilsonart Challenge. Runners-up honors went to (clockwise from left) Sequoyah, Triad, Trek, Loom, Advent, and Hem. The seven premiated designs will be displayed at the 2015 ICFF, opening in New York on May 16.

in brief

(Wilsonart Challenge continued)

back of his Trek chair to hold a hiker's backpack. Baily Williams's Advent draws on the point of a Moravian star to pay tribute to that local religious community. Triad by Rider Evans features a clever tessellated composition shaped like North Carolina. And Alexander Ravan's Sequoyah is a modern take on the classic porch rocking chair.

According to program coordinator and design historian Grace Jeffers, the competition's mission is for "rising design stars to participate in ICFF in a meaningful way." Year after year, Wilsonart's installation draws throngs of visitors excited to see cuttingedge furniture designs.

The winning and runner-up designs will be on view at the Jacob K. Javits Convention Center from May 16 to 19. —Lauren Palmer

Nourishing Design

WHEN THE USA PAVILION opens at Expo Milan (the World's Fair) on May 1, attendees will encounter a veritable buffet of concepts reflecting the theme of the fair: Feeding the Planet/Energy for Life. Designed by New York City-based Biber Architects, the barn-inspired structure—called American Food 2.0: United to Feed the Planet—pays homage to the nation's proud agricultural history as well as its fundamental role in scientific innovation.

Central to the pavilion's design is a 7,000-square-foot vertical hydroponic farm. Planted with 42 varieties of crops, it is projected to yield 100,000 tons of food over the expo's six-month duration. The "field" is composed of ZipGrow towers—by Bright Agrotech—which rely on a rainwater irrigation system to nurture the vegetables, grains, and herbs that will grow in planters fashioned from recycled soda bottles.

The building also features a boardwalk built with wood reclaimed from Coney Island; a large-scale video installation; inter-



FOOD FOR THOUGHT New York design studio Biber Architects created American Food 2.0: United to Feed the Planet as the American pavilion for Expo Milan. It opens May 1.

active exhibition areas; and a rooftop terrace that will host various events.

"On the roof terrace, almost 10,000 square feet of switchable glass will provide shade or sun as needed," says James Biber, founder and principal of the eponymous architecture firm. "SPD-SmartGlass changes almost instantaneously and can be treated as an array of very large pixels; we are programming images, patterns, words, and reactive motion into what would otherwise be a simple glass canopy." The installation is set to become the largest-known smartglass roof installation.

By the time Expo Milan closes on October 31, an estimated 29 million visitors will have passed through its gates. —Lisa Caldwell

Team Players

WATER CONSERVATION may not be foremost in baseball lovers' minds, but for



Chicago Cubs fans, that may soon change. Sloan Valves, a Franklin Park, Illinoisbased plumbing company whose products have been used at Wrigley Field since 1914, hopes to increase awareness of the issue through a partnership with the Cubs organization and designation as the team's Official Water Efficiency Partner.

Through the sponsorship, the company's flush valves, fixtures, and faucets are being



score! Sloan partners up with the Chicago Cubs.

utilized in the team's spring training center in Mesa, Arizona, as well as in a \$575 million renovation of Wrigley Field. The training center was rededicated as Sloan Park in February. The Wrigley renovation, which broke ground last year and will unfold in phases, will rehabilitate the famed ballpark and introduce improvements such as expanded concessions and dining, updated player facilities, and new seating and restrooms.

Sloan will not only enjoy brand presence at both venues but also have the opportunity to "authentically convey the message of water sustainability," which is particularly critical in a desert state like Arizona, says Parthiv Amin, vice president of marketing. The Sloan Park washrooms will be a showcase for water-saving products—among them, automatic faucets powered by battery, solar, and turbine technologies. And the spaces will feature infographics that illustrate the amount of water being saved.

Sloan has similar plans for the new Wrigley Field bathrooms, which are slated for completion this year. -Alice Liao

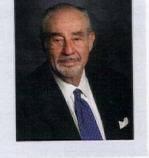
IN MEMORIAM: JOEL SPIRA

LIGHTING PIONEER Joel Spira, founder of the Lutron Electronics Co. and inventor of the first solidstate electronic dimmer, died on April 8 at the age of 88. Spira served in the U.S. Navy from 1940 to 1946 and earned a Bachelor of Science degree in Physics from Purdue University (1948). He then worked for a defense contractor where he developed his lifelong interest in

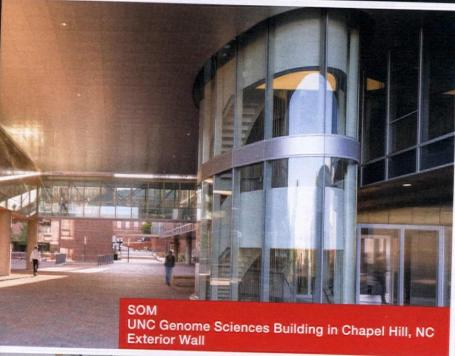
lighting control. Spira founded Lutron in 1961 with his wife Ruth in their New York City apartment, introducing the Capri dimmer soon after. Chairman and Director of Research for the company, Spira grew Lutron into a leading global manufacturer of controls with some 14,000 products, eventually moving the business to Coopersburg, Pennsylvania. In keeping with the

founders' wishes that the company remain a private, family-owned and -run business, Ruth Spira and her daughter, Susan Hakkarainen, will be the Co-Chairmen and will lead the company with Lutron's company President, Mike Pessina, and the current management team.

VISIONARY Lutron's late founder and chairman, Joel Spira.



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MOCK ROCK

MANUFACTURER: Flavor Paper

PERFORMANCE: Inspired by her own stone fireplace, interior designer Ghislaine Viñas created this whimsical wallpaper, available in Type II commercial or Nolar substrate.

PRICE RANGE: \$\$

APPLICATIONS: Suitable for residential and commercial applications alike.

FLAVORPAPER.COM (SNAP #01)

CHOREOGRAPH

MANUFACTURER: Kohler PERFORMANCE: The series of solid-colored, textured, and faux-stone wall finishes can transform a shower in less time than it takes to tile. Joints and integrated storage are available. PRICE RANGE: \$\$

APPLICATIONS: Well suited to residential and hospitality

KOHLER.COM (SNAP #02)

SHOWERSELECT

SQUARE TRIM

MANUFACTURER: Hansgrohe PERFORMANCE: Two push buttons switch between showerhead and hand shower functions; a dial controls the thermostatic cartridge.

PRICE RANGE: \$\$

APPLICATIONS: The minimalist unit, available in fall 2015, complements modern residential baths.

HANSGROHE-USA.COM (SNAP #03)

PROP LIGHT

MANUFACTURER: Moooi PERFORMANCE: The Prop LED family is composed of a linear floor lamp, linear suspension luminaire, disc-shaped wall light, and single-or double-sided disc-shaped pendant.

PRICE RANGE: \$\$\$

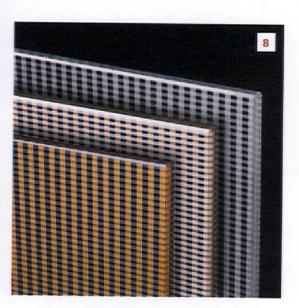
APPLICATIONS: The bubbly design lends itself to hospitality and residential environments.

MOOOI.COM (SNAP #04)

KEY \$= VALUE, \$\$= MID-RANGE, \$\$\$ = HIGH-END







SHIMODA SHAPES

MANUFACTURER: Trendway PERFORMANCE: Designed by architect Joey Shimoda, this foam furniture series includes stand-alone and modular seating pieces for lounging and working, plus an occasional table.

PRICE RANGE: \$\$

APPLICATIONS: The contract collection is perfect for education, hospitality, and progressive office spaces.

TRENDWAY.COM (SNAP #05)

INTEGRITY XL

MANUFACTURER: Silestone **PERFORMANCE:** Seamlessly integrated into the countertop, the nonporous quartz sink design reduces joints and is easy to maintain.

PRICE RANGE: \$\$\$ **APPLICATIONS:** The company's new 8-inch-deep version is ideal for the North American residential market. SILESTONEUSA.COM

(SNAP #06)

SLIMS COLLECTION

MANUFACTURER: Studio Beam

PERFORMANCE: This pendant, which takes standard E26 bulbs, features a shade of laser-cut and hand-soldered metal.

PRICE RANGE: \$\$-\$\$\$ APPLICATIONS: Offered in a variety of bold hues, the luminaire suits residential and hospitality settings. STUDIO-BEAM.COM

(SNAP #07)

METAL NETWORK

MANUFACTURER: Pulp Studio PERFORMANCE: A total of

10 graphic patterns are rendered in metallic-ink interlayers for this laminated-glass line.

PRICE RANGE: \$\$

APPLICATIONS: Specifiable with clear, low-iron, mirrored, colored, or textured glass, the product is suitable for commercial glazing applications.

PULPSTUDIO.COM (SNAP #08)



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Time and Time Again

In adaptive reuse, architecture expresses its era—on today's terms.

BY DAVID SOKOL

WORKING WITHIN THE HISTORIC FABRIC does not have to limit architects' ingenuity. By inserting new programs in old structures and layering contemporary design on vintage elements, adaptivereuse projects can energize and lend spark to historic places while affording architects a unique exercise in creative license. These recent projects show how three firms approached their building's particular challenges.

THE BIG REVEAL

When Overland Partners outgrewits 9,000-square-foot headquarters on the outskirts of San Antonio, the architecture firm decided that its new, larger space should be embedded in the downtown community. The 1917 Hughes Plumbing Warehouse more than doubled



Overland's previous square footage, and locating it within the upand-coming River North district meant the move would also have meaningful neighborhood impact.

The conditions of the former light industrial facility—cavernous and derelict—suited the architects. "A blank slate allowed us to create the type of office we needed," recalls project architect Patrick Winn. "We didn't want to build brand-new or have a space that was too prescribed. So the warehouse provided a balance."

The interventions Overland made blended respect and reinvention. Its boldest move entailed removing 1,200 square feet of roof immediately behind the warehouse's brick facade and inserting a courtyard into the entry sequence. The firm designed—and fabricated in its own workshop -- perforated steel screens for installation

in the facade's former loading docks. The new courtyard elevations $\,$ are clearly delineated from the old exterior, with load-bearing curtain walls of Triple-S steel and Sharp Glass windows made locally by Tower Steel. Since opening, the courtyard has become a nexus for the entire community, as it offers neighbors a quiet spot for reflection.

Inside the lofty office, custom glass-and-steel assemblies form freestanding conference rooms accented with teak finishes from Terramai. Other newly added interior touches beyond the meeting pods include Dirtt modular wall systems and Herman Miller furniture.

INSIDE JOB

The Architectural Team (TAT) found the 1931 Mattapan branch of the Boston Public Library in better condition than Overland had found its warehouse. Although the library branch had been replaced in 2009, the City of Boston continued to maintain the 7,200-squarefoot building until transferring it in early 2014 to the Boys & Girls Club.

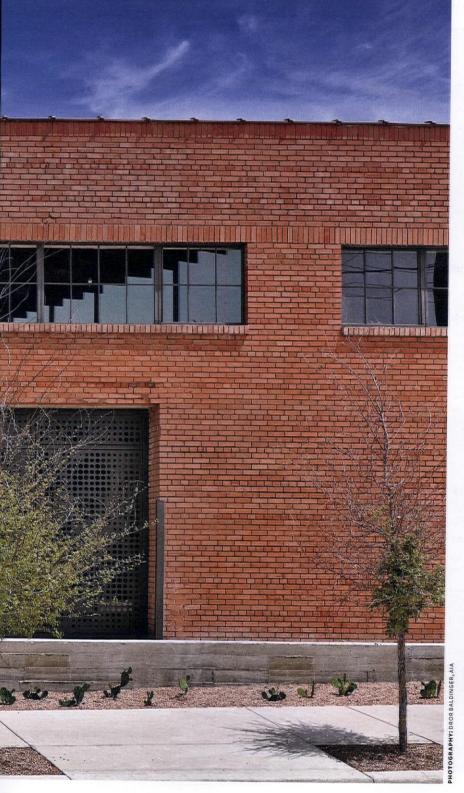
The nonprofit worked with TAT to convert the community resource into a center dedicated to at-risk neighborhood teens. $While the project team \, did \, not \, pursue \, landmark \, designation, says$ TAT senior project manager Mark Rosenshein, "the building is an excellent example of that era's architecture and construction." He





OPENING THE ENVELOPE

Overland Partners transformed a San Antonio warehouse into a 21st-century workplace by removing roofing immediately behind the facade and creating an inviting courtyard (left and far left). Inside, office elements are laid lightly over the historic interior (above).



OLD MEETS YOUTH

In converting the Boston Public Library's former Mattapan branch to ateen center, The Architectural Team distinguished new programming from historic building with vibrant color, as in the eMusic Clubhouse (right) and lobby lounge (below).







DISCREET UPDATES The Palm Springs Art Museum Architecture and Design Center (above and top right) appears relatively unchanged from the original E. Stewart Williams design. Marmol Radziner made minimal alterationsinstalling recessed fluorescents from Prudential in the Armstrong ceiling, for instance—to accommodate museum uses.

help further animate the space. The layering of eras is an apt metaphor for the center's provision of social and education services, notes Rosenshein: "The building provides a solid foundation already imbedded in the community that teens can rely on and leave their creative mark on."

DELICATE TOUCHES

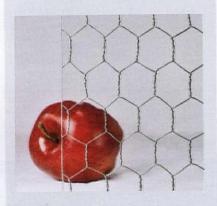
Not every alteration to a historic building needs to announce itself, asserts Leo Marmol, of Marmol Radziner. Citing his firm's transformation of the Santa Fe Federal Savings & Loan—an E. Stewart Williams design—into the Palm Springs Art Museum Architecture and Design Center, Edwards Harris Pavilion, the managing principal explains, "We were accommodating current codes in a way that was invisible."

The updates to the 1961 glass-and-steel building were largely done for accessibility and life-safety purposes: Within the 13,000 square feet, Marmol Radziner expanded bathrooms imperceptibly, installed a glass handrail fabricated by Razmik Abedi behind the original banister, and seamlessly inserted an ADA-compliant Kone elevator.

The museum program required one notable change, Marmol says, namely adding interior shading devices for the daylight that had, in his words, "enlivened the bank facility." These Lutron motorized roller shades protect architecture drawings from ultraviolet rays, and Williams's original aluminum screens stretch across the west elevation like oversize punch cards. Fundraising for replica east-facing screens is ongoing.

AGING GRACEFULLY

RECYCLED PRODUCTS AND HISTORIC REPLICAS EMBRACE THE LIVED-IN LOOK



BENDHEIM

VintageWire decorative laminated glass features chicken wire laminated between two sheets of glass in sizes up to 48 by 85 inches. Suitable for interior walls, stair railings, and door inserts.

BENDHEIMARCHITECTURAL.COM



VIRIDIAN

For its Granary collection, Viridian reclaimed Douglas fir and pine from the structural beams of namesake farm buildings and removed all nails. The wood was then milled into 5-inch-wide planks suitable for walls, flooring, and fixtures.

VIRIDIANWOOD.COM



NICHIHA

Vintage Brick consists of fiber-cement panels that convincingly mimic a decades-old wall. The 9-foot-square pieces come in saturated Alexandria Buff (top) and muted White Wash. NICHIHA.COM

adds, "Because the building served as a library with strong community ties, we felt it was important to preserve as much of the original structure and character as we could." The exterior was largely intact, so TAT refreshed plaster trim and replaced slate roof shingles selectively while entirely redoing glazing with historically sympathetic windows from Series 600, manufactured by Universal Window and Door.

Original interior surfaces—moldings framing the barrel-vaulted ceilings, pilasters surrounding Palladian-style windows, the cupola interior—were coated in a clean white. More vibrant hues, complementing Interface and Shaw flooring, were applied to define new program spaces, such as the eMusic Clubhouse, whose accent wall got a lift from Benjamin Moore paint in Lemon Shine.

A large Delray Cylindro II pendant creates a focal point above the reception desk, and crisscrossing Prime pendants from Axis Lighting





Consult the UL fire resistance directory for specific assemblies. For additional fire safety information, go to www.buildgp.com/safetyinfo. © 2015 Georgia-Pacific Gypsum LLC, All rights reserved. TOUGHROCK, FIREGUARD 45, the FLAME icon, GEORGIA-PACIFIC and the GEORGIA-PACIFIC logo are trademarks owned by or licensed to Georgia-Pacific Gypsum LLC.



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Juan Porral: Parks and Renovation

Partner, Grimshaw Architects, New York City

HOW DID YOUR FIRM REVITALIZE THE QUEENS MUSEUM IN NEW YORK?

The museum is situated in a park adjacent to the Grand Central Parkway. It was constructed in 1939, and the facade hadn't been maintained very well; also, trees along that edge had matured and blocked the view to the building. We worked with the New York City Department of Parks and Recreation to remove some trees in poor condition, planted new ones elsewhere, and designed a three-dimensional glass facade to act as a giant canvas for future artwork commissioned by the museum.



WAS THERE ANYTHING TRICKY ABOUT USING GLASS IN THIS PROJECT?

Designing the light diffuser that hangs above the atrium gallery [left] was a challenge. The glass was treated to diffuse a controlled range of daylight entering the space, and it took several mockups to achieve this. For the feature stair's balustrade, few fabricators could bend the glass at the desired radius. And the first part of

fine-tuning the glass treads was the selection of the top layer, which had to meet the required dry and wet slip coefficient and perform as a modesty screen. The second part was the treatment of the exposed vertical surface of the treads, since they're laminated in four layers. We wanted a monolithic polished edge so each multilayered tread would read as one piece.

TELL US ABOUT SOME OTHER MATERIALS YOU USED.

We kept to a small palette of simple, natural, and pure materials: glass, steel, and polished concrete. Steel forms the slender structure of the galleries. The concrete was used throughout the circulation and gallery floors.

WHAT ARE YOU CURRENTLY WORKING ON?

Tram stops for Qatar's Education City [below], on the outskirts of Doha. The initiative is implementing a campus-wide system to create a more pedestrian-friendly environment by keeping cars in parking structures. We proposed a canopy with integrated PVs installed on a cable truss tensioned back to six steel masts. The canopy is glass rather than fabric: choosing a noncombustible material was critical because of the power rails' proximity. And we integrated PVs within the glass makeup to provide much of the

power needed to light the platforms and cool the waiting rooms. The canopies also function as shading devices in the harsh climate, so we're specifying three-ply laminated, acid-etched glass with reflective coating and ceramic frits on some of the surfaces.



JUAN PORRAL joined Grimshaw's London office in 1996, later helping establish the firm's U.S. (in 2001) and Doha offices (2010). In addition to leading the Queens Museum expansion, Porral was a project associate on the Fulton Street transit center and the project architect on the Experimental Media and Performing Arts Center at Rensselaer Polytechnic Institute in Troy, New York.



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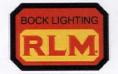
The number of glass panels used in the Queens Museum lobby's hanging light diffuser.

The architect stands in the lobby of the Queens Museum, in Flushing Meadows Corona Park. The building's complex glass staircase (background) combines a balustrade bent by Precision Glass and treads fabricated by Agnora, with an antislip layer by Walker Glass.



Jim Alesci's Place - Solon, Ohio

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SNAP 73

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COOPER HEWITT, SMITHSONIAN DESIGN MUSEUM

Taking Up a Collection

PROBLEM: Renovate and expand a Smithsonian museum in a historic

Georgian-style mansion on Manhattan's Upper East Side.

SOLUTION: Employ discreet design solutions to stay true to the building's history while also broadening the museum's curatorial scope.

BEFORE ITS RENOVATION, the Cooper Hewitt, Smithsonian Design Museum was bursting at the seams. To exhibit the Tata Nano, in 2010, installers had to push the tiny vehicle through the main entrance.

The museum enlisted a trio of New Yorkbased architecture firms to overhaul the former residence of steel baron Andrew Carnegie for 21st-century exhibitions. Yet Gluckman Mayner Architects, Beyer Blinder Bell Architects & Planners, and Diller Scofidio + Renfro (DSR) had to stay true to the museum's early 20th-century legacy.

With memories of the Tata incident still fresh, the museum stipulated that the freight elevator accommodate objects the size of a Formula One race car. In turn, Gluckman Mayner created an art path so objects could be seamlessly transported into and through the museum. Now a 2,000-pound pivot-door system concealed behind original woodwork

leads to a ThyssenKrupp freight elevator and storage space just beyond the first-floor reception desk—itself a sculptural piece designed by DSR.

Besides having the historic spaces extensively restored and cleaned, the architects relocated the museum's third-floor design library to nearby townhouses, which freed up 6,000 square feet for new gallery space. A sprinkler system was installed, as was new lighting. The existing teak floor proved worn beyond repair, so the original historic patterns were re-created by Haywood Berk.

After the three-year, \$91 million renovation, the museum opened in December 2014 with 60 percent more exhibition space, a relocated gift shop, and a new café. "We feel liberated," says museum director Caroline Baumann. "The renovation was what we needed to do to become America's design museum."



APPLICATIONS

The luminaires are

well suited to retail.

office, or gallery

PRICE RANGE \$\$

settings.

EPL.COM

(SNAP #10)

ARCHITECTS

Gluckman Mayner; Beyer Blinder Bell; DSR

TYPE

Museum PRODUCT MiniMax

MANUFACTURER

Edison Price Lighting PERFORMANCE

Thetracklighting system can be specified for wash or accent solutions in halogen or LED.

MEETS PRESENT

The revamped Cooper Hewitt features many interactive exhibits. Track lighting by Edison Price (above) illuminates a display in the museum's new first-floor Process Lab.

IN THIS PROJECT



MULTITOUCH TABLE

MANUFACTURER: Ideum

PERFORMANCE: Aided by the technology that powers smartphones and tablets, these custom fixtures accommodate multiple users. The 84-inch high-resolution surfaces further allow visitors to "check in" and interact with museum objects.

PRICE RANGE: \$\$\$

APPLICATIONS: Ideum technology is ideal for cultural and educational installations.

IDEUM.COM

(SNAP #11)



BARRISOL LIGHT

MANUFACTURER: Barrisol USA

PERFORMANCE: This stretch ceiling, which attaches to a room's perimeter, can be illuminated from behind for a custom lighting environment.

PRICE RANGE: \$\$

APPLICATIONS: The system can be made into acoustic ceilings and digitally printed. Available in 13 colors and degrees of translucency, the system suits permanent installations and temporary deployments.

BARRISOLUSA.COM

(SNAP #12)



SPLO-3724 CENTER **HUNG PIVOTS**

MANUFACTURER: Rixson

PERFORMANCE: These heavy-duty pivots have a 2,000-pound capacity.

PRICE RANGE: \$\$

APPLICATIONS: In any commercial setting where heavy doors and space-saving solutions are needed.

RIXSON.COM

(SNAP #13)





CUSTOM STRIP FLOORING

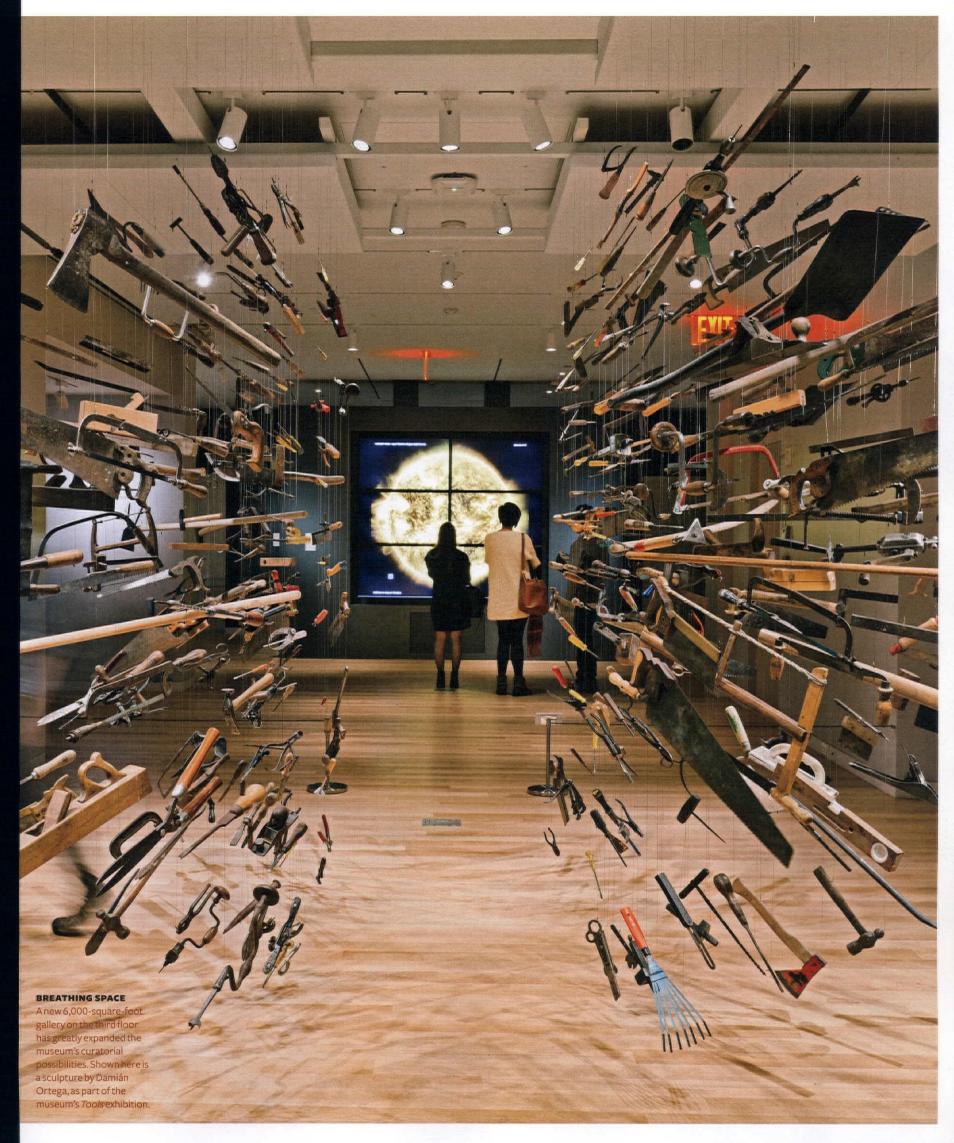
MANUFACTURER: Haywood Berk Floor Company

PERFORMANCE: Premium-quality wood flooring solutions available in a variety of finishes and custom patterns, such as this oak strip floor in a herringbone pattern.

PRICE RANGE: \$\$\$

APPLICATIONS: Suitable for commercial, cultural, and residential projects, in areas with heavy foot traffic.

HAYWOODBERK.COM (SNAP #14)



THEY'RE SO BEAUTIFUL, THEY OUGHT TO BE HUNG IN A MUSEUM.

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NEWEST PRODUCT LINE:

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Vulcraft DoveTail Ceiling/Roof Deck is available in 2" and 3.5" deep profiles and supports multiple types of roofing materials. DoveTail's strong performance characteristics do not interfere with its clean, modern appearance.

DoveTail Ceiling/Deck A new exhibit by Vulcraft



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Exposed- and concealed-fastener panels used horizontally provide a clean-lined, contemporary aesthetic for this prosperous automobile business in Lubbock. Interior PBC panels give the same rugged durability and modern feel as the stylish exterior.

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PROJECT: Carizma Motors

LOCATION: Lubbock, Texas

ARCHITECT: ADC Inc.
CONTRACTOR: ADC Inc.

PANEL PROFILE: PBC (Charcoal Gray / Galvalume®), FW-120 (Galvalume®)

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WINDOWS + DOORS

Sound Off

URBAN ARCHITECTS know that noisy surroundings call for a good sound-transmission class (STC) rating. The higher a product's rating, the better its acoustic dampening. Standard dual-pane windows have an STC in the mid-20s, and thicker glass can hover around 40, according to Kevin Vilhauer, an engineering manager at Milgard Windows and Doors in Tacoma.

But thickness is not the only factor. "The real trick to high sound insulation is to have windows that are asymmetrical," says Florian Speier, vice president and founder of Zola European Windows: If the outer pane is thicker than the inside glass and laminated as well, then "sound can reverberate between the panes."

High STC-rated windows are available from a variety of brands. Along with Milgard and Zola, there's Jeld-Wen and Kolbe, which recently doubled its STCrated product offering.

Vilhauer says the highest-performing product his firm offers is rated 48. "Some companies provide up to STC 50," he explains, "but they usually require special sound laminates between the sheets of glass, which can get quite expensive." - Nigel F. Maynard



QUIET, PLEASE Kolbe's Ultra Series windows, glazed with ThermaPlus LoE insulating glass, frame views to the Seattle Space Needle in this Janof Hald Architecture-designed house. STC ratings for the Ultra Series range from 28 to 40.

KEY \$= VALUE, \$\$ = MID-RANGE, \$\$\$ = HIGH-END



SITELINE EX WOOD



MANUFACTURER: Jeld-Wen **PERFORMANCE:** Siteline is

constructed from AuraLast pine—which does not rot—and LoE-366 glass that meets 2016 Energy Star 6 requirements. It comes in 22 exterior colors, seven anodized clad options, and nine interior finishes.

PRICE RANGE: \$\$

APPLICATIONS: Well suited to mid-tier residential remodeling, new construction, and light commercial projects.

JELD-WEN.COM (SNAP #15)



CONTEMPORARY CLAD SYSTEM



MANUFACTURER: LaCantina Doors **PERFORMANCE:** The system

features a narrow 215/16-inch stile-and-rail profile, 21/4-inch-thick panels with an LVL core, and extruded-aluminum cladding. It's available in folding, multi-slide, and swing door formats.

PRICE RANGE: \$\$\$

APPLICATIONS: Intended for exterior openings in commercial and residential

LACANTINADOORS.COM (SNAP #16)



METROVIEW FG 501T WINDOW WALL



MANUFACTURER: Kawneer PERFORMANCE: MetroView blends

curtain-wall appearance with the cost efficiency of a window wall. It's engineered for shallow, horizontal inside glazing; a screw spline lowers installation costs. Slab-edge covers are optional.

PRICE RANGE: \$\$

APPLICATIONS: Ideal for mid-rise commercial projects and multifamily housing.

KAWNEER.COM (SNAP #17)



NEXT GENERATION ULTIMATE DOUBLE HUNG WINDOW

MANUFACTURER: Marvin Windows and Doors

PERFORMANCE: The window boasts multipoint locks, a narrow check rail, and wood interior faces. A vent mode lets users lock the window while it's open 4 inches, and tiltable sashes make for easy cleaning.

PRICE RANGE: \$\$\$

APPLICATIONS: Suitable for residential and light commercial projects.

MARVIN.COM (SNAP #18)



BRIAN ANDREW **FUENTES** Principal Fuentes Design Boulder, Colorado

'Good acoustic performance of windows is a great upgrade for our projects, in combination with increased thermal performance for energy savings and passive-solar winter gain in cold climates. Architects have to balance all these factors when specifying glazing, and with an ever urbanizing planet, sound control becomes more critical for health and productivity."



MARK PETERS Principal Chicago

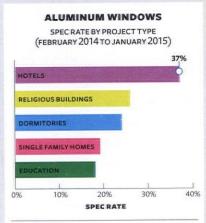
"When you're thinking of using acoustic windows, it's important to consider not only the glass—which can be double-or triple-glazed, for example—but also how it is sealed at the perimeter. This is especially true if you need the window to be operable."



ANDREW TAYLOR Senior Associate Shalom Baranes Washington, D.C.

"Our firm has been involved in projects where acoustic windows were necessary because of proximity to freeways, railroads, or above-grade subway tracks. We have also used them in high-end condos in neighborhoods with an active nightlife and in downtown buildings housing law firms. Acoustic context is the key driver, and cost is an important consideration."

SNAPSHOTS



SOURCE: DODGE DATA & ANALYTICS

WOOD DOOR MANUFACTURERS

JELD-WEN WINDOWS AND DOORS

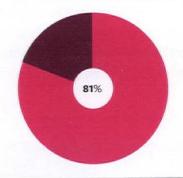
PANELFOLD

GRAHAM

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

SNAP MATH

Residential doors represent about 81% of the total U.S. market for entry doors.



SOURCE: AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION

METAL DOORS AND FRAMES

SPEC RATE BY PROJECT TYPE



SOURCE: DODGE DATA & ANALYTICS

METAL WINDOW MANUFACTURERS TO WATCH

HOPE'S WINDOWS EFCO CORPORATION

TRACO

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

Old World Meets High-Tech



Wausau's 3250i Invent Retro XLT windows brought high performance

WINDOWS OF

OPPORTUNITY

to Soho House Chicago while maintainingthe historic industrial integrity of the 107-year-old building.

SOHO HOUSE CHICAGO, a 40-room hotel and private club, opened last year in a 107-year-old former belt factory. To bring the historic industrial building up to speed without disturbing its charm, the design team, led by Soho House's Nick Jones, replaced almost 500 steel windows with new ones—specifically the 3250i Invent Retro XLT Series from Wausau Window and Wall Systems.

"There was a certain distinctive design Soho House was looking for in maintaining the old-factory look," says Jim Price, who $manages\ business\ development\ for\ the\ Orland\ Park, Illinois-based$

window installation contractor Auburn Corp. "The large openings and replication of the classic windows played an important role in accomplishing that mission."

The original windows had true divided lites with narrow profiles; the new units have a 3%-inch aluminum frame and custom panning and muntins applied to both interior and exterior. For energy efficiency, the openings utilize PPG's Solarban 60 low-E glass, which has a low solar-heat gain coefficient and blocks 67 percent of the total solar energy. Finally, Linetec created the slightly distressed appearance with two coats of paint. -NFM

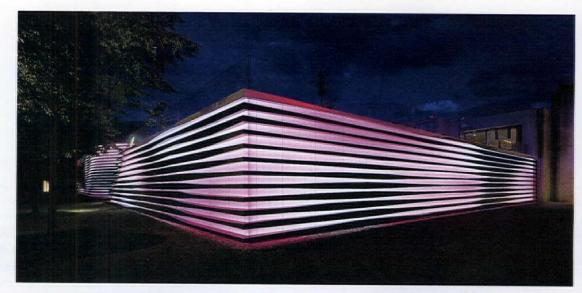
EXTERIOR LIGHTING

Night Lights

DURING THE DAY, visitors to Austria's Casino Bregenz gaze at the breathtaking Lake Constance. But after sunset, all eyes turn to the main building's recently transformed media facade. Conceived by Austrian architects Art-Arch 23, with technical implementation by Zumtobel, the dynamic new envelope incorporates the lighting manufacturer's CAPIX evolution LED matrix luminaires.

Hugging the curved facade is a total of 6,500 pixels, each composed of three RGB-LEDs and connected by a single data and supply line. The result is a dazzling display of color and motion visible even from afar. It's easy to change the sequence of the exterior illumination, and an intelligent video-control system makes it possible to use animation.

The updated facade allows the single-story structure to stand proudly alongside its better-known cultural peers, the Kunsthaus Bregenz and the Vorarlberg Museum. Christoph Thoma, CEO of Bregenz Tourism and City Marketing, comments, "The new facade is a wonderful landmark, an eye-catcher that makes the city a bit more urban." —Allison Craig





LUMINOUS SKIN Thanks to Zumtobel LEDs and the Austrian architecture firm Art-Arch 23, the new media facade of the Casino $Bregenz\,has\,garnered\,as\,much\,attention\,as\,the\,gaming\,tables\,within.$

KEY \$= VALUE, \$\$ = MID-RANGE, \$\$\$ = HIGH-END



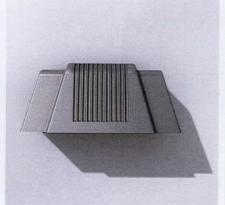
FLINDT

MANUFACTURER: Louis Poulsen PERFORMANCE: Designed by Christian Flindt, the bollard is fitted with two LED light sources—with output of approximately 585 lumens—positioned at the top of the aperture to emit both horizontal and vertical light. The resulting distribution covers an angle of more than 180 degrees.

PRICE RANGE: \$\$

APPLICATIONS: Ideal for parks, entrances, paths, and any repetitive installation. LOUISPOULSEN.COM

(SNAP #19)



MURALUX-T

MANUFACTURER: U.S. Architectural

PERFORMANCE: A dual-purpose, uplight/ downlight, surface-mount accent light, Muralux-T can be specified in either HID or LED. The uplight function is offered in two beam spreads: a vertical beam and a flood beam with a 92-degree spread to illuminate overhangs, reliefs, or projections.

PRICE RANGE: \$

APPLICATIONS: Designed for interior and exterior applications.

USALTG.COM (SNAP #20)



MANUFACTURER: ERCO PERFORMANCE: This rectangular in-ground LED wall washer produces an even, grazing light thanks to its asymmetrical distribution. It can also be tilted by up to 10 degrees in either direction to allow for alignment regardless of uneven floors.

PRICE RANGE: \$\$

APPLICATIONS: Optimized to achieve uniformity on the vertical plane even when spaced far apart, Site fixtures make emotive facade lighting possible on a limited budget.

ERCO.COM (SNAP #21)



SIGNAL LED

MANUFACTURER: Landscape Forms PERFORMANCE: Created in collaboration with Frog Design, Signal holds multiple arrays of LEDs in triboard formations. These cast-aluminum luminaires, each with its own Acrylite lens, are designed to minimize weight and dissipate heat.

PRICE RANGE: \$\$\$

APPLICATIONS: Offered in pedestrian and streetscape versions, with a single luminaire or dual luminaires mounted back-to-back.

LANDSCAPEFORMS.COM (SNAP #22)



President Lewis Aquí Landscape + Architectural Design Miami, Florida



ALISON LEONARD Architect Architecture+ Troy, New York

"Recently, Governor Cuomo signed "The climate and coastal exposure into law the Healthy, Safe and Energy to salt makes specifying products Efficient Outdoor Lighting Act. This in South Florida a unique task. I am requires outdoor lighting installed by always looking for new ideas and state agencies to use properly products. All my clients like the shielded luminaires to eliminate idea of low-voltage LED systems, unnecessary up-and side-lighting especially when you can control and reduce light trespass. Today's them via cell-phone and tablet apps. designers are generally more conscious of saving energy and



RAMSEY SILBERBERG Principal Meyer + Silberberg Berkeley, California

"The broadest trend is unquestionably the migration to LED. One challenge we face with this shift is that clients want to know about the product's long-term performance, which can be difficult to illustrate because the technology is relatively young. We look to fixtures that offer an attractive warranty period, use quality drivers, and are manufactured by dependable companies."

Winning Art Brightens Montreal Winter

minimizing our carbon footprint."





LIGHTS FANTASTIC Montreal's latest Luminothérapie exhibition featured (from top) Fascinoscope, video projections by Lüz Studio, and Prismatica, interactive halogen-lit prisms by Raw Design.

THE CITY OF MONTREAL has set an ambitious agenda with Luminothérapie, an annual competition that encourages multidisciplinary creativity using light, outdoors—in the dead of winter, no less.

This past season's winning works, Fascinoscope by Montreal-based design company Lüz Studio and Prismatica by Toronto architecture firm Raw Design, were displayed from December until February in the dynamic Quartier des Spectacles neighborhood.

Rather appropriate for the city's entertainment epicenter, Fascinoscope consisted of eight video-projection sites, each accompanied by an original carnival-theme soundtrack and four interactive games inspired by early 20th-century carnival classics. The Théâtre Maisonneuve, for one, was transformed into a magic lantern with a giant carousel on which images unfurled as if on a zoetrope.

Prismatica gave visitors the sensation of standing within a giant kaleidoscope. The installation featured an array of 50 luminous triangular boxes fitted with PAR38 halogen lamps. User manipulation and wind rotated the seven-foot-high boxes, throwing patterns of light onto the streetscape.

The next installment of Luminothérapie works is set to open December 15, 2015, and run through February 2016. -AC

EXTERIOR LIGHTING MANUFACTURERS TO WATCH

ATLANTIS RAIL SYSTEMS

PETERSEN PRECAST SITE FURNISHINGS

INTENSE LIGHTING

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

EXTERIOR LIGHTING

SPEC RATE BY PROJECT TYPE (FEBRUARY 2014 TO JANUARY 2015)



SOURCE: DODGE DATA & ANALYTICS

SNAP MATH

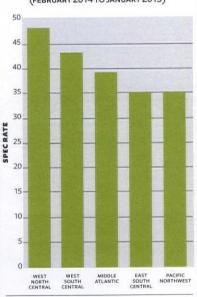
1.5 MILLION

Target number of exterior lighting fixtures to replace with high-efficiency units over two years (from May 2014) per the Outdoor Lighting Accelerator initiative.

SOURCE: U.S. DEPARTMENT OF ENERGY

EXTERIOR LIGHTING

SPEC RATE BY TOP REGION (FEBRUARY 2014 TO JANUARY 2015)



SOURCE: DODGE DATA & ANALYTICS

AREA LIGHTING MANUFACTURERS TO WATCH

NILAND COMPANY

VIVIDLEDS CREE

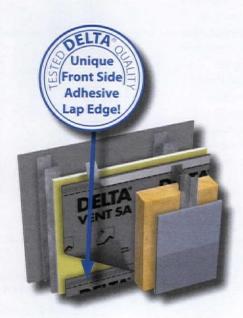
SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD





Whole Foods, Cherry Hill, NJ

" Air Barrier That Sticks."



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- ... has an air-and water-tight self-adhesive edge.
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- ... passes ASTM D1970 Nail Sealability.
- ... has an easy-to-use split release liner.
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- ... easy to install.
- ... is unaffected by surfactants.
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- ... produced in an ISO 9001 registered manufacturing plant.













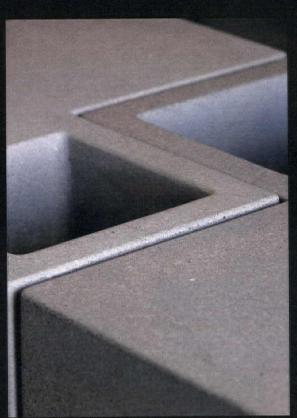




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CONCRETE + MASONRY

Hard Times

KNOWN FOR ITS cutting-edge products, such as tiles, pavers, wall cladding, and stair elements, the San Clemente, California-based Concrete Collaborative boasts a veritable who's who of clients. On that list is Google, along with many hallowed design-minded luxury brands: Calvin Klein, Versace, Coach, Burberry, Emporio Armani, and Chanel among them.

Co-founder Kate Balsis shares credit with her clients, saying their level of sophistication spurs the company to innovate. "And it's not about just regular concrete but also high-level finishes," she explains. "We focus on the surface, color, and refinement of the concrete"

The company made its mark with concrete floor tiles, some of which evoke terrazzo or textured limestone, but a new offering expands the options further. Designed for interior and exterior vertical applications (think rainscreen), the Zuma line features wall tiles and panels fabricated in various reliefs: there's one remarkably realistic-looking wood plank, for example. The color palette is wide, and panels come in sizes up to 8 feet wide. - Nigel F. Maynard



A SOLID TEAM PLAYER Concrete Collaborative's Zuma wall tiles and panels (shown here in Board Form style) can be adhered, fixed using clip systems, or integrated in rainscreen systems.

KEY \$= VALUE, \$\$ = MID-RANGE, \$\$\$ = HIGH-END



GROUND SERIES ACMU

MANUFACTURER: E. Dillon & Company **PERFORMANCE:** Ground Series architectural CMUs are made from colored aggregates polished and ground for a dramatic finish. Offered in more than 52 colors

PRICE RANGE: \$\$

APPLICATIONS: Well suited to exterior or interior walls in commercial, civic, residential, and hospitality settings.

EDILLON.COM

(SNAP #23)



ADAIR MARBLE OVERLAY

MANUFACTURER: Arriscraft International PERFORMANCE: For vertical applications, Adair is a natural quarried limestone cut into thin pieces—from 4 to 231/2 inches long with a split-face finish.

PRICE RANGE: \$\$

APPLICATIONS: Used for interior or exterior vertical applications on residential, commercial, and institutional projects.

ARRISCRAFT.COM (SNAP #24)



COLOR SEAL II

MANUFACTURER: Davis Colors PERFORMANCE: Color Seal II, an acrylic copolymer sealer, is applied to concrete as a curing compound. It captures water in the slab as it cures, helping prevent cracking and optimizing final hardness. The semitransparent product can be tinted in a choice of 40 shades.

PRICE RANGE:\$

APPLICATIONS: To be sprayed on freshly colored concrete.

DAVISCOLORS.COM (SNAP #25)



FINESSE FINISH

MANUFACTURER: Dryvit Systems PERFORMANCE: A trowel-applied textured finish, Finesse lends surfaces a smooth precast concrete look and comes in 288 standard colors as well as custom hues.

PRICE PANGE: \$

APPLICATIONS: Can be applied over existing masonry, stucco, and concrete walls. DRYVIT.COM (SNAP #26)

SNAP BACK: CONCRETE + MASONRY



element there."

JANET BLOOMBERG Principal KUBE Architecture Washington, D.C.

"Though our architecture work is primarily residential, we do use masonry products and commercial finishes. We recently used exposed CMUs in a home addition for a family from South America—the material is actually a common construction



TERESA ROSANO Principal Architect and Cofounder Ibarra Rosano Design Architects Tucson

"We frequently use concrete and masonry for a variety of reasons: their thermal benefits (thermal mass and thermal lag), structural properties, and aesthetic qualities. On one project, Integra block enabled us to have a well-insulated wall and expose the masonry inside and out. Prior to this product's emergence, a double wall would have been required to achieve this."



JIM ZACK Principal Zack Devito Architecture San Francisco

"Our most obvious use of concrete is for foundations, sidewalks, and driveways, and we try to incorporate exposed concrete for walls and landscape elements. As wood frame construction remains the most common and economical structural system for the Type V work we do, concrete is an added value design feature, unless we can use it in place of steel for seismic value."

Concrete Remix



WITH MORE of the populace enjoying the look of concrete in interior finishes, it's no surprise that product manufacturers are finding new ways to design with it. One such company, **Kaza**, is taking the material to another level with exotic textures, unique shapes, and inspired finishes.

"All our tiles are made by hand from the beginning," says Joe Meszaros, CEO of the London-based company, which was founded in 2012. Meszaros adds, "Due to the flexible molding, we offer a true customization service for the architectural and interior design community."

The secret to the company's success is its special concrete \min of more than 10 ingredients and aggregates. "We use natural pigments to color the material and treat the tiles' surface in the factory," Meszaros explains.

is the faceted geometric Cruck (left) and the organic Florentin (above).

 $Tiles\,come\,in\,24\,standard\,colors\,with\,either\,glossy\,or\,matte$ finish, though custom colors are also specifiable. Kaza's collections—featuring patterns from starbursts and florals to geometrics—are already unique works of art. But for a truly one-off experience, designers can supply their own images for production through Kaza's Bespoke program. —NFM

SNAPSHOTS

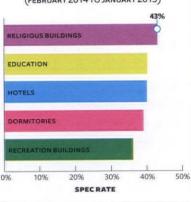
SNAP MATH

typical fired-clay brick.

SOURCE: NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

CONCRETE MASONRY UNITS

SPEC RATE BY PROJECT TYPE (FEBRUARY 2014 TO JANUARY 2015)



SOURCE: DODGE DATA & ANALYTICS

SNAP FACT

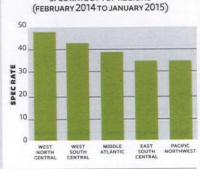


The percentage of American-made cement that's produced in just five states: California, Texas, Michigan, Pennsylvania, and Missouri.

SOURCE: CEMEX U.S.A.

CONCRETE MASONRY UNITS

SPEC RATE BY TOP REGIONS (FEBRUARY 2014 TO JANUARY 2015)



SOURCE: DODGE DATA & ANALYTICS

BRICK MASONRY MANUFACTURERS TO WATCH

BELDEN BRICK CO.

ACME BRICK COMPANY ENDICOTT CLAY PRODUCTS

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

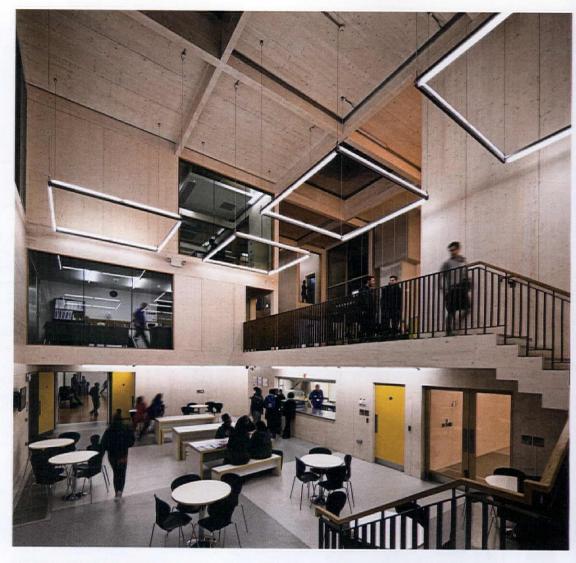


Teenage Woodland

LOCATED IN THE Lewisham area of South London, the New Generation Wells Park Youth Venue offers the community a variety of services and recreational activities—an indoor climbing wall, a health clinic, and undefined flexible spaces for impromptu gatherings. The light-filled building was designed by London-based architects RCKa, who specified a structural timber system from Binderholz.

According to RCKa director Dieter Kleiner, creating socially responsive buildings is one of the practice's main tenets. In the youth-center context, he says, it comes down to engaging with the local community and crafting a positive place in which young people find inspiration, feel safe and secure, and enjoy spending time.

"We selected timber for its ability to support these objectives," Kleiner explains. "Given its natural warmth and unprecious and irregular surface characteristics, we feel that timber encourages users to take ownership of the building and make the most of the various spaces." So far the firm's plan seems to be working. —Lisa Caldwell



PLANTING COMMUNITY ROOTS Using a cross-laminated timber system, RCK a took full advantage of the authentic properties of $the \, material, cutting \, door \, rebates \, directly \, from \, the \, wood \, and \, forming \, staircases \, at the \, New \, Generation \, Youth \, Venue, \, in \, Lewisham.$

KEY \$= VALUE, \$\$ = MID-RANGE, \$\$\$ = HIGH-END



RIFT AND QUARTERED WHITE OAK CENTENNIAL

MANUFACTURER: Nydree Flooring PERFORMANCE: Color is infused into the cellular structure of the wood veneer before a 1/10-inch-thick, UV-stable acrylic wear laver is applied. That piece is then joined to a core of marine-grade birch. Lifetime warranty against wear-out and FloorScore certified.

PRICE RANGE: \$\$

APPLICATIONS: These engineered wood floors can be nailed, glued, or stapled to wood or concrete subfloors

NYDREEFLOORING.COM

(SNAP #27)



FARMHOUSE COLLECTION

MANUFACTURER: Carlisle Wide Plank

PERFORMANCE: With 6-to 10-inch widths and up to 12-foot lengths, these plank floors have up to 70 percent fewer seams than a typical wood-floor installation.

PRICE RANGE: \$\$

APPLICATIONS: For residential and commercial applications, these handscraped, tongue-and-groove floors are compatible with radiant heat, concrete slabs, and conventional plywood subfloors.

WIDEPLANKFLOORING.COM (SNAP #28)



INTERWOVEN ECO-PANELS



MANUFACTURER: Architectural Systems

PERFORMANCE: Maple, walnut, and American oak intermingle for an interesting effect. VOC-free and Lacey Act compliant, the panels are available in 11 colorways with coordinating baseboards, moldings, and outlet frames.

PRICE RANGE: \$\$

APPLICATIONS: These 131/2-by-531/2-inch interlocking panels are ideal for feature walls. ARCHSYSTEMS.COM

(SNAP #29)



SOUTHERN YELLOW PINE



MANUFACTURER: Kebony PERFORMANCE: Treated to improve dimensional stability by 50 percent, the FSC/ PEFC-certified woods are machined as tropical hardwood and come with a 25-year warranty against aboveground rot.

PRICE RANGE: \$\$

APPLICATIONS: Used on vertical and horizontal surfaces for interior, exterior, and marine applications, the brown wood weathers to a silvery gray when exposed to sunlight and rain.

KEBONY.COM (SNAP #30)





JOHN CLAGETT Principal John Clagett Architect Englewood, New Jersey

"Natural materials arouse emotional responses in ways steel and other manufactured products do not. Wood, because it was once alive, has singular qualities that are unique to living things: any particular piece has its own texture, color, and patterning. The material gives us something we respond to viscerally."



JULIA MONK Senior Vice President, Director of Hospitality Design New York City

"With hospitality properties seeking a high-design aesthetic and an experience rooted in authenticity, the pressure is on to incorporate unexpected materials. Bamboo has experienced a resurgence of sorts because of its good looks and versatility. For high-traffic areas such as restaurants and lobbies, it offers a superlative solution and requires minimal care. It's an option that looks expensive and performs well."



GITA NANDAN Principal Thread Collective Brooklyn, New York

One way we love to use wood is to pull it from the exterior to interior facade, creating a warm visual connection between in- and outside. We specify a range of wood products-veneers, engineered panels, raw lumber-in a variety of reclaimed and weathered finishes. We even used firewood as a decorative wall material for one hospitality project."

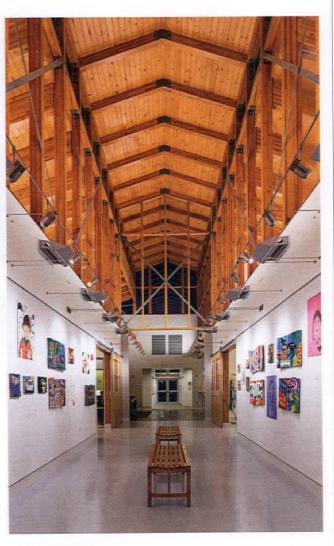
Wood Makes Good



THE ANNUAL Wood Design Awards, organized by the Wood **Products Council**, recognizes innovative design in projects making significant use of—you guessed it—wood. A jury evaluated more than 160 entries on aesthetic, engineering, and construction merits, in categories such as multi-story structures and green building practices, at both the regional and national levels.

Juror Alan Organschi, a principal of New Haven-based Gray Organschi Architecture offers this perspective on the material: "Until recently, forest-product use in the U.S. was relegated to the artisan's workshop or the low-rise, land-gobbling development of suburban buildings." Now, he continues, "wood is poised to become the new high-performance structural material. Breakthroughs in timber manufacturing—fiber optimization, glue lamination, and $mass timber structural design-will direct the \, material \, drawn \, from \,$ our forests to high-rise, high-density urban construction."

National winners included the LEED Silver-certified Jackson Hole Airport, by Gensler, and Flansburgh Architects' Indian Mountain Student Arts & Innovation Center in Lakewood, Connecticut. To see the full awards roster (including regional winners) and the 2016 guidelines, visit woodworks.org. —LC



TOP HONORS

Jackson Hole Airport (top left) and the Indian Mountain Student Arts & Innovation Center (above) were declared national winners of the 2015 Wood Design Awards.

SNAPSHOTS

NEW MATH 83 MILLION



North American production of laminated veneer lumber is forecast to reach 83 million cubic feet in 2018.

SOURCE: APA, THE ENGINEERED WOOD ASSOCIATION

SHOP-FABRICATED STRUCTURAL WOOD **MANUFACTURERS TO WATCH**

TIMBER SYSTEMS

FILLER KING COMPANY

GEORGIA-PACIFIC

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

LUMBER PRICING TRENDS IN THE U.S.

(FROM JUNE 2014 TO MARCH 2015)

2x4 PINE (MBF) - 2x4 common (MBF) 2x4 FIR (MBF)



SOURCE: DODGE DATA & ANALYTICS/ENR

SNAP MATH

172,941,396

Acres of FSC-certified forest in North America as of December 2014.

SOURCE: FOREST STEWARDSHIP COUNCIL

ORNAMENTAL WOODWORK **MANUFACTURERS TO WATCH**

WOODTONE BUILDING PRODUCTS

DRIWOOD MOULDING CO.

ENKEBOLL DESIGNS

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

PLUMBING FIXTURES

Let's Get Digital

DIGITAL FAUCETS ARE BRINGING a higher IQ to bear on residential applications; sensor faucets were just the beginning. Dornbracht's Smart Water technology expands design flexibility, provides convenience, conserves water, and enhances bathroom safety.

At the core of Smart Water is the eValve. The valve digitally regulates the flow of water based on cues transmitted from a microprocessor operating Microsoft software. Users adjust and set water temperature and volume via two separate knobs, while a simple interface communicates information, such as temperature, flow, and more, depending on the application. Unlike the control knobs on conventional faucets, these can be detached and placed where needed. And a foot sensor adds the convenience of hands-free operation.

For the home chef, Smart Water can be coupled with the company's eUnit Kitchen to dispense the precise amount of water needed for tasks such as filling pots or rinsing cooking ingredients, and electronically opens the drain to keep hands out of dirty water. - Alice Liao



BRAINY APPLICATIONS Combined with the eUnit Kitchen feature, the Smart Water system by Dornbracht allows users to program the precise temperature, volume, and amount of water dispensed.

KEY \$= VALUE, \$\$ = MID-RANGE, \$\$\$ = HIGH-END



LYNDON FREESTANDING TUB

MANUFACTURER: American Standard DXV PERFORMANCE: The water this freestanding soaking tub holds—up to 60 gallons—exits through a center drain with a toe-tap stopper. Made of fiberglassreinforced acrylic, it measures 6634 by 305/16 by 245% inches.

PRICE RANGE: \$\$\$

APPLICATIONS: The tub's clean lines and slightly radiused corners make it ideal for contemporary residential bathrooms.

DXV.COM (SNAP #31)



AMBIENT PULL-DOWN KITCHEN FAUCET

MANUFACTURER: Franke

PERFORMANCE: The 161/2-inch-tall faucet features a brass pull-down, dual-spray head that extends up to 21 inches. A toggle switches between two spray patterns.

PRICE RANGE: \$\$

APPLICATIONS: The sleek, minimalist design suits modern kitchens.

FRANKEKSD.COM (SNAP #32)



KOHLER DTV+

MANUFACTURER: Kohler

PERFORMANCE: The modular platform of this digital showering system allows users to personalize their bathing experience: water, sound, steam, and lighting preferences are set via touch screen. Up to two 2-, 3- or 6-outlet digital valves can be connected for enhanced functionality, including the ability to deliver different water temperatures from two outlets at once.

PRICE RANGE: \$\$\$

APPLICATIONS: For residential bathrooms. KOHLER.COM

(SNAP #33)



HIGH EFFICIENCY TOILET AND CARRIER SYSTEM

MANUFACTURER: Zurn Industries PERFORMANCE: Paired, the

EcoVantage ZTR sensor wall bowl and EZCarry system carry waste more than twice the distance of typical 1.28-gpf systems. Moreover, it consumes 31 percent less water than the 1.6-gpf federal maximum standard.

PRICE RANGE: \$\$

APPLICATIONS: The wall-hung sensoroperated system is suitable for use in commercial buildings.

ZURN.COM (SNAP #34)

SNAP BACK: PLUMBING FIXTURES



GLEN COBEN Principal and Owner Glen & Company New York City

"For a while, we were seeing very little design innovation, particularly from U.S. companies. For betterlooking and -engineered products, we went to German manufacturers. Today, American manufacturers are focusing on aesthetics and functionality. Our choices are greater and the prices, increasingly competitive. The reasonable cost of custom-designed products has given us more freedom to create."



JAMES PERISE Vice President, Engineering Chief STV New York City

"Low-flow plumbing fixtures are becoming the norm. Many codes, New York's included, now require fixtures such as 1.28-gallons-perflush water closets and self-closing public lavatories at 0.5 gpm or 0.25 gallons per cycle. Even where there's no such code, requirements, or mandate, people will still use them to satisfy sustainable initiatives and rating systems like LEED and Green Globes.



ADAM WINIG Cofounding Principal Arcsine San Francisco

"Attractive automatic faucets for commercial spaces are hard to come by, as are those with a traditional aesthetic. There's a gap in the market, and we don't know that anyone is working to fill it. But it's nice that there are brands now developing products like a flush valve that is powered by the action of the water traveling through the system, eliminating the need for hardwired or battery powered valves."

SNAPSHOTS

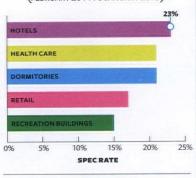
SNAP MATH 757 BILLION

Since 2006, the use of WaterSense products has saved 757 billion gallons of water while saving consumers \$14.2 billion in water and energy bills.

SOURCE: U.S. ENVIRONMENTAL PROTECTION AGENCY

SENSOR FAUCETS

SPEC RATE BY PROJECT TYPE (FEBRUARY 2014 TO JANUARY 2015)



SOURCE: DODGE DATA & ANALYTICS

NEW MATH

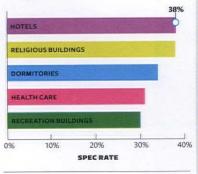


U.S. demand for plumbing fixtures and fittings is projected to grow by 6.3% each year through 2017. The residential market will account for over 60% of the demand, with the most rapid annual gains.

SOURCE: FREEDONIA GROUP

URINALS

SPEC RATE BY PROJECT TYPE (FEBRUARY 2014 TO JANUARY 2015)



SOURCE: DODGE DATA & ANALYTICS

PLUMBING FIXTURE **MANUFACTURERS TO WATCH**

DUPONT CORIAN

SLOAN

BRADLEY CORP.

SOURCE: DOWNLOADS FROM SWEETS.COM OVER A 12-MONTH PERIOD

Going With the Flow



At the 2014 Reinvent the Toilet Fair in India, a prototype of Cal Tech's winning proposal took pride of place in a bathroom designed by Kohler.

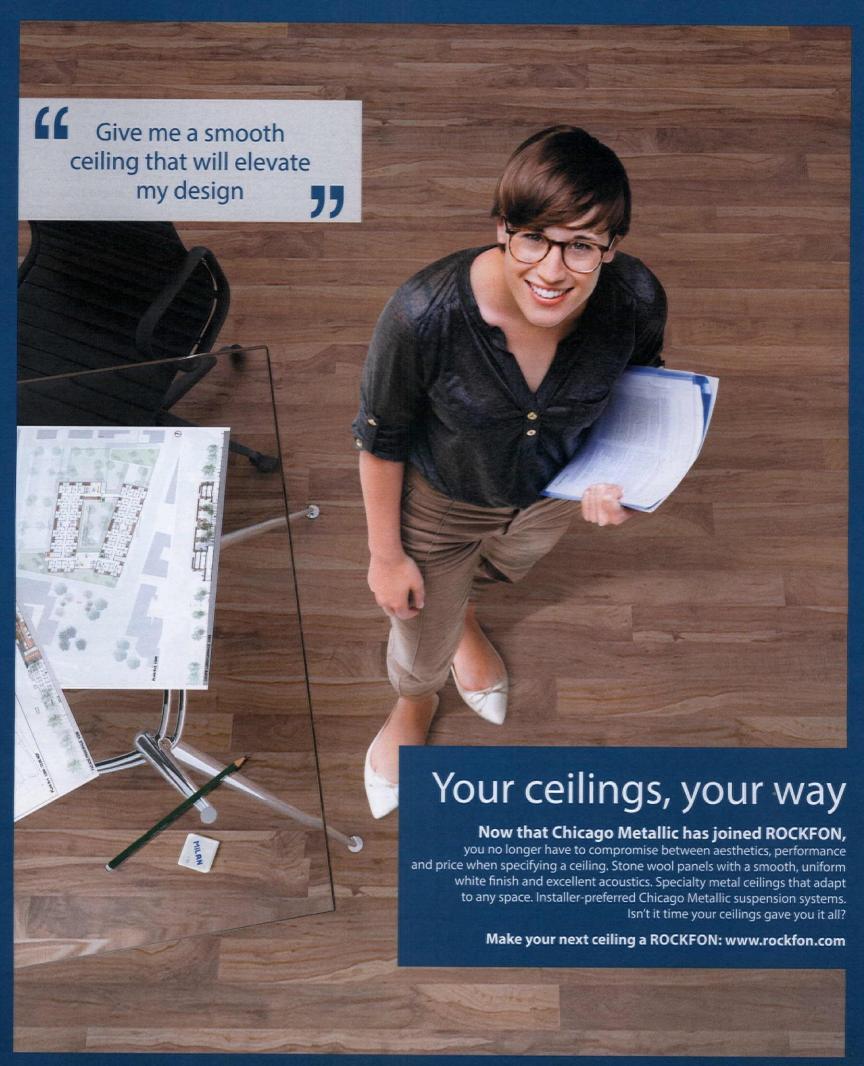
SEAT OF POWER

SINCE 2011, the Gates Foundation has awarded 16 grants through its Reinvent the Toilet Challenge. Launched to address the global crisis of inadequate sanitation, which affects 2.5 billion people (and their well-being), the program charges researchers with devising a self-contained toilet system that eliminates pathogens and recovers valuable resources from human waste, promotes business in poor areas, and costs five cents per user.

For the past two years, the California Institute of Technology has been working with Kohler to develop the school's winning proposal: a photovoltaic flush toilet system. A solar-powered electrochemical reactor breaks down human waste into fertilizer, hydrogen, and clean water, which is then repurposed for flushing. Three first-generation prototypes are already being field-tested in India. Data collected from these tests, as well as an additional grant, are driving the production of five new, less costly and more easily transported prototypes.

Rob Zimmerman, sustainability manager for Kohler, estimates those prototypes will be built by early 2016. They will then undergo aggressive field-testing in India in a variety of applications, includingcritically—residential use: "We Americans don't like to use public restrooms; people in India don't either," Zimmerman says. Having single families own and maintain their toilet, he points out, will allow the team "to really battle-test the technology." -AL







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Centennial College — Toronto, Canada Architect: MacLennan Jaunkalns Miller Architects



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Onthe Upswing

Creative responses to the recession are paying even bigger dividends today.

BY J. MICHAEL WELTON



IN THE MID-ATLANTIC **REGION**, the companies that adapted most nimbly during

the recession are those emerging as winners today.

"Anyone in the construction industry saw declines through 2012," says Scott Alwine, marketing manager at Maryland's Tate Access Floors. The company focused heavily on its raised floors and aislecontainment products for the data-center market. Today its business is up by 20 percent, and the proof lies in its Jessup headquarters. "Five years ago, things were pretty lean," Alwine says. "Now we're at a point where we could go beyond what the facility handles."

Downturns present an opportunity for one of two things, says Art Dodge, president and CEO of Ecore in Lancaster, Pennsylvania: "You can go inside, pull a blanket over your head, and wait, or take advantage and revamp the business." Dodge chose the latter path, hiring a new team and investing heavily, and it paid off. "By 2013, we'd recovered all our losses," he reports. "And last year was our best ever."

At Stonhard Group in Maple Shade, New Jersey, maintenance work on flooring was the key to sales growing by 8 percent, to 10 percent. "The drop-off in commercial construction took the biggest hit," says Mike Jewell, director of research and development, "but industrial construction and maintenance work stayed strong."

In textiles, mill closures became all too common. But some firms came back, by employing new strategies. "The Pennsylvania mill where we manufacture the Folds collection has added 40,000 square feet in the past two years," says Mary Holt, vice president of creative at Rockville Centre, New York-based Carnegie. "They do customized products for us with high-quality design and start with a smaller level of investment, so they don't have to keep a huge inventory." In essence, they're weaving nimbleness into the permanent business model.

Maryland, New Jersey, New York, Pennsylvania



MANUFACTURER: Carnegie LOCATION: Rockville Centre, New York PRODUCTS: Upholstery, panels, wallcoverings, window fabrics, and Xorel. FOUNDED: 1950 EMPLOYEES: 100 PRICE RANGE: \$\$-\$\$\$ CARNEGIEFABRICS.COM





Hendrick Architectural Products LOCATION: Carbondale, Pennsylvania PRODUCTS: Cladding, column covers, grating, grilles, infill panels, screens, and signage. FOUNDED: 1876 EMPLOYEES: 200+ PRICE RANGE: \$-\$\$\$ HENDRICKMFG.COM

MANUFACTURER: Ecore International LOCATION: Lancaster and York, Pennsylvania PRODUCTS: Flooring and surfacing products and accessories. FOUNDED: 1891 EMPLOYEES: 400 PRICE RANGE: \$-\$\$\$ ECOREINTL.COM





MANUFACTURER: Overly Manufacturing Company LOCATION: Greensburg, Pennsylvania PRODUCTS: Custom architectural metal for roofing, wall systems, and columns. FOUNDED: 1888 EMPLOYEES: 25 PRICE RANGE: \$\$-\$\$\$ OVERLY.COM



MANUFACTURER: Quality Stone Veneer LOCATION: Refton, Pennsylvania PRODUCTS: Masonry veneer clip system. FOUNDED: 1976 EMPLOYEES: 238 PRICE RANGE: \$\$
QUALITYSTONEVENEER.COM





MANUFACTURER: The Stonhard Group Location: Maple Shade, New Jersey PRODUCTS: Seamless epoxy and urethane floor, wall, and lining systems. FOUNDED: 1922 EMPLOYEES: 570 PRICE RANGE: \$\$ STONHARD.COM; THESTONHARDGROUP.COM

MANUFACTURER: Tate
LOCATION: Jessup, Maryland;
Red Lion, Pennsylvania
PRODUCTS: Raised access floors,
data-center aisle containment,
and underfloor service.
FOUNDED: 1963 EMPLOYEES: 250–500
PRICE RANGE: \$-\$\$
TATEING.COM: TATEAIRFLOW.COM



SNAPSHOTS

MARYLAND



The state is ranked
19th nationally in
brick production,
based on standard
brick equivalents
(SBEs). Total 2014
reported production
by member companies
inthe Brick Industry
Association is 32
million SBEs, up 14%
from 2013.

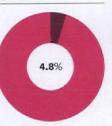
Maryland's manufacturing businesses generate \$20.03 billion in gross state product.

SOURCES: BRICK INDUSTRY ASSOCIATION;
MARYLAND DEPARTMENT OF BUSINESS AND ECONOMIC
DEVELOPMENT

NEW JERSEY

In 2013, more than **133,700 people were employed** in industries classified as advanced manufacturing in the state.

The advanced manufacturing cluster contributed over \$20.7 billion to New Jersey's real gross domestic product in 2012, or about 4.8% of all state output.



SOURCE: NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

NEW YORK



156 MILLION CUBIC FEET

The state's **total timber harvest production** in **2013** was 156 million cubic feet.

New York is currently home to **16,395 manufacturers** employing 717,018 workers.

SOURCES: NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION; NATIONAL ASSOCIATION OF MANUFACTURERS

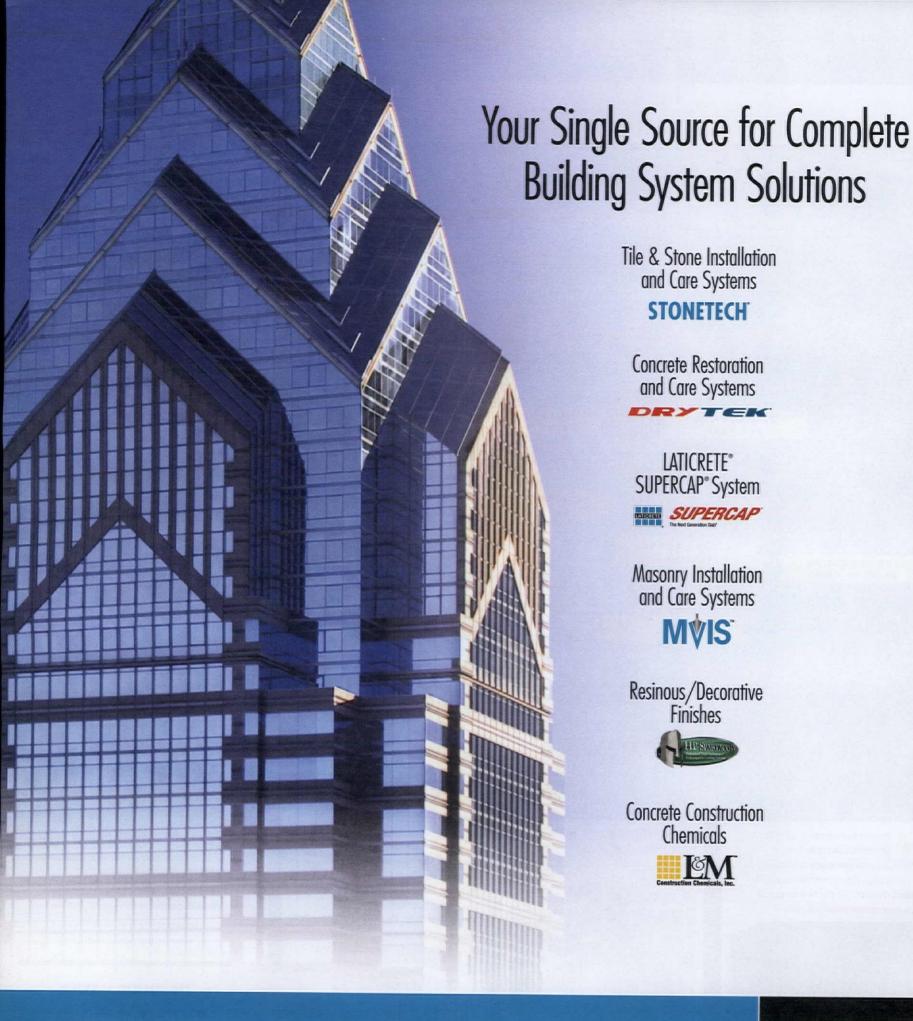
PENNSYLVANIA

\$77.37 BILLION

In 2013, total manufacturing output in the state came to \$77.37 billion.

Pennsylvania leads the nation in growing hardwood trees and produces one billion board feet of lumber per year.

SOURCES: NATIONAL ASSOCIATION OF MANUFACTURERS; KEYSTONE WOOD PRODUCTS ASSOCIATION









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OVERVIEW PAGE 49
New schools incorporate
eco-friendly buildings
and lesson plans.

Q&A PAGE 51 Mike Johnson, 3form's director of sustainability, takes a hands-on approach. PRODUCTS **PAGE 53**Glass, insulation, and green walls for a sound building envelope.

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SOLUTION PAGE 62
A phase-change
material provides
translucent insulation.

EARTHWATCH PAGE 64 View artist John Grade's latest work before it decomposes.

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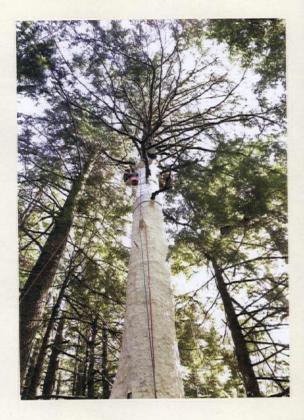
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SNAP 64

"Study nature, love nature, stay close to nature. It will never fail you." -FRANK LLOYD WRIGHT





IN THIS ISSUE

Continuing Education

As places of learning that combine progressive pedagogy with a deep respect for the natural world, the two schools featured as this issue's case studies not only combine the three R's of education (reading, writing, and 'rithmetic) with the three R's of the environment (reduce, reuse, and recycle), they go well beyond to become living laboratories for their students.

At the Primary School for Sciences and Biodiversity, Paris-based architects Chartier Dalix took up the challenge of re-creating a fully functional ecosystem on a now dense former brownfield site—the old Renault factory grounds—just outside the French capital. Enveloped by a living wall and living roofs, the building's preschoolers and preteens get firsthand knowledge of, and interaction with, a variety of plant and animal species. At the same time, the building itself sets the tone for the landscape within the wider development.

The Nueva School at Bay Meadows, in San Mateo, California, is also part of a large redevelopment project, this time on the site of a shuttered horse-racing track. In fact, the two schools have much in common. Both are compact buildings with outdoor spaces that spill out to their surroundings, and both engage local communities

by making their indoor spaces available for public use.

Designed by Leddy Maytum Stacy Architects, the California high school, like the French example, practices what it preaches. "We don't separate sustainable thinking from typical discussions of pedagogy," explains William Leddy. "The school is a model of low-carbon living."

Learning to embrace nature is not a task limited to schoolchildren. In a new feature called Solution, Swiss architect and manufacturer Dietrich Schwarz relied on a natural phenomenon—the release of heat as a material melts or solidifies—in developing GlassX. The translucent phase-change material is used as a unique building insulation product that maximizes daylight.

Issues of natural change and disintegration are central to artist John Grade's work. Earthwatch features his latest large-scale sculpture. Called *Middle Fork*, its hundreds of thousands of wood pieces are joined together around a giant plaster cast of a hemlock tree. After being exhibited over the next two years, it will be brought back to the foot of the tree that served as its inspiration to gradually moss over and decay, just as most things in nature eventually do.



John Grade goes into the woods for his latest artwork, Middle Fork (top left): the Nueva School, in San Mateo, California, connects students with nature (top right); GlassX insulation products take advantage of a natural process (above).

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SNAP 66

Q&A

The Big Reveal

3form's Mike Johnson is a dirty-jobs kind of director of sustainability. Case in point: after Johnson invited CEO Talley Goodson to wade through the company's Dumpster for discards, the Salt Lake City materials and hardware manufacturer launched its Reform pilot program. More recently, Johnson helped 3 form release its first set of environmental product declarations (EPDs). Here, Johnson discusses EPD preparation and the many other ways he's rolling up his sleeves and getting down to business.

BY DAVID SOKOL

GREENSOURCE: You're a longtime advocate of environmental responsibility. When you arrived at 3 form in 2013, how well was the company doing with its sustainability program?

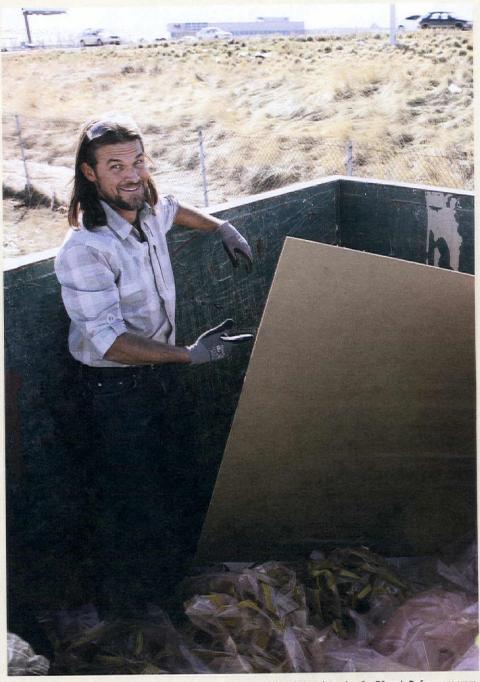
MIKE JOHNSON: I knew 3 form had ambitious goals to minimize its footprint and had made real progress in those commitments; even more impressive was the integration of social responsibility through local and global initiatives, because social equity is often forgotten in the triplebottom-line approach. I wanted to expand our sustainable leadership further. Since 3 form had already achieved zero waste going to landfill, for instance, it was time to expand that goal to zero-waste manufacturingessentially cutting out waste before it is generated.

Within 3form's suite of sustainability initiatives, which are most evolved? Sustainability is ever evolving. With many of our internally driven Path to Zero goals already met, we're now working to overcome the greater challenges, like investigating our environmental impact and working toward transparency as an organization.

Why so? We should really evaluate companies as a whole and not only their products. Companies that have robust sustainability measures can integrate smaller footprints into every product they make—even if each product alone might not appear to be green. This is where EPDs or similar certified assessment documents have tremendous value. Really understanding a product requires digging deeper into supply chains, manufacturing practices, durability and maintenance of the material, and disposal options at the end of life.

What is it like to go through the EPD process? It takes a good amount of care, first, to select partners. We needed a third party to conduct a Life Cycle Analysis on products, then a second third party to independently review work for accuracy and integrity. Once those relationships with PE International and NSF were established, we started the real work of providing data on manufacturing inputs. This accounted for everything from energy to raw material, and then we created models to predict and quantify environmental impacts. The final report was verified and made publicly available.

What have you learned from the EPD efforts that will change the manufacturing of 3form products? The process deepened our understanding of impacts along supply chains and manufacturing processes, and where changes might yield best results. For example, now we have real data to support incorporating recycled materials into 3form products—which is already a core tenet of our sustainability



Mike Johnson in action for 3form's Reform program.

platform. Scientific modeling used to create 3 form's EPDs shows that incorporating recycled materials correlates to a dramatic reduction in global-warming potential (GWP), as well as other manufacturing-based impacts. We also found some potential impacts related to packaging techniques, something else we have been working to improve. Ultimately, an effective sustainability initiative must focus on efforts that yield the greatest results.

If you were to assess the way the architecture and design community sources materials, would you say that environmental performance factors heavily into decision making? The A&D community does care about environmental performance, and it is driven by passionate individuals whose influence we see in the growth of initiatives like LEED, the Living Building Challenge, and Green Globes. This, of course, is balanced by a practical need to source materials that meet performance, design, cost, and other requirements. For us, we're driven to inspire designers with our own story of social and environmental stewardship and high-design materials. It's a philosophy that has continued to work for us. 65

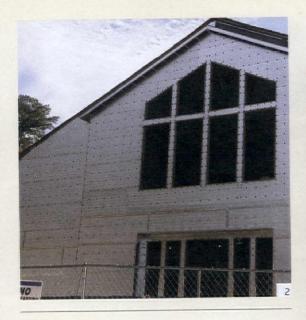
"Companies that have robust sustainability measures can integrate smaller footprints into every product they make."

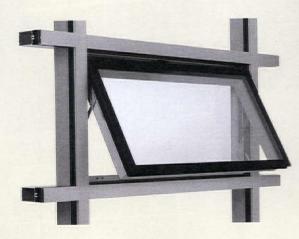
MIKE JOHNSON Director of Sustainability,

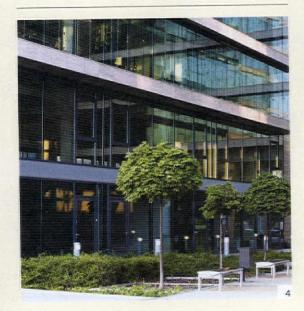


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1 Greenscreen

Greenscreen Los Angeles, CA greenscreen.com

Greenscreen has completed the first third-party-verified Health Product Declaration (HPD) for green facade products. The greenscreen HPD covers a standard (48 by 96 inches) greenscreen panel with a baked-on powdercoat finish. The three-dimensional welded wire trellising system creates a captive growing space for plants to flourish and intertwine. It is shown here installed at the Humboldt Park branch of the Chicago Public Library. **SNAP #40**

z Xci Foil Wall Insulation

Hunter Panels Portland, ME hpanels.com

Xci Foil is a high-thermal rigid insulation panelcomposed of a closed-cell polyisocyanurate foam core manufactured onlinebonded to an impermeable foil facing material. It is designed for use in commercial and residential wall applications to provide continuous insulation within the building envelope. Polyiso offers the highest R-value per inch of any foam plastic board insulation.

SNAP #41

3 GLASSvent UT Windows

Kawneer Norcross, GA kawneer.com

The new GLASSvent UT windows are ideal for architects and designers wanting to provide freshair ventilation without sacrificing thermal performance in curtain wall or storefront applications. In addition to their streamlined appearance, GLASSvent UT windows deliver a convenient means to ventilate with fresh air, which has been shown to improve indoor air quality as well as to improve occupant comfort, wellbeing, and productivity. **SNAP #42**

4 Aviprotek with Solarban Glass

Walker Glass Montreal, Quebec walkerglass.com

Walker Glass recently launched bird-safe low-Ecoated acid-etched glass. This innovation marries the AviProtek pattern range from Walker Glass with the features of Solarban glass products from PPG Industries. Combining the Walker Textures AviProtek acidetched stock (or custom patterns) on one surface with the high-performance low-E coatings (Solarban 60, 67, or 70xl glass) from PPG on the other results in bird-friendly glass with high solar performance. **SNAP #43**

CASE STUDY 01

Pass with Flying Colors

Leddy Maytum Stacy Architects' bold design for a progressive high school is the centerpiece of a new sustainable mixed-use development.

BY JOSEPHINE MINUTILLO

As a boy, William Leddy accompanied his grandfather to the Bay Meadows racetrack, a popular attraction within walking distance of his childhood home in San Mateo, California. After nearly 75 years of continual operation, the track closed in 2008, and decades after his lucrative outings—"We always somehow seemed to win when my grandfather took me," he jokingly recalls—Leddy and his San Francisco—based firm, Leddy Maytum Stacy Architects, would return to those grounds to build a new high school.

Midway between San Francisco and Silicon Valley, Bay Meadows is being reimagined as a comprehensively sustainable pedestrian village—and the largest transit-oriented development (TOD) in California. The Nueva School at Bay Meadows, which opened in August for the 2014–15 academic year, is the first nonresidential project to be completed in the mixed-use development, which will eventually encompass over 1,000 residential units, office and retail space, on-site amenities such as health care, child care, and financial services, three public parks, a community garden, and various open spaces.

The school selected a small, 2.75-acre site for its adjacency to a park. Leddy Maytum Stacy had previously designed a LEED Gold facility for the progressive school's K–8 program. The firm took full advantage of the school's propitious position with a variety of outdoor spaces that extend the landscape of learning beyond the building, which is targeting LEED Platinum certification.

"The Nueva School emphasizes cross-disciplinary education, where students can learn and convene anywhere," explains Leddy. "We designed the building more like a modern workplace [than a school], with lots of transparency, overlooks, and casual spaces." In fact, the architects used the straightforward structure and 64-foot-wide floor plate typical of office buildings to save money on construction since, despite its being private, the school had a budget similar to that of a public school. (If the school decides to move at any point, the entire campus could easily be converted to commercial office use, an integral part of the TOD.)

The simple but high-performing building envelope, clad in a neutral cement plaster, features vivid accents. "San Mateo often has gray skies and fog," Leddy explains. "Though I had been resistant to bright colors, it would not have been good to do stucco boxes without any color here." Sunshades in a variety of hues protect the interiors



An 87kW photovoltaic-array canopy provides 14 percent of the project's site energy requirement as well as being the building's distinctive top. TEAM **ARCHITECT** Leddy Maytum Stacy Architects Engineers Luk & Associates (civil); Tipping Mar & Associates (structural) Consultants Integral Group (commissioning); Andrea Cochran
Landscape Architecture
(landscape); Charles
M. Salter Associates
(acoustical); Architectural
Lighting Design (lighting) **General Contractor** Devcon Construction SOURCES **Fixed Exterior** Sunshades Kawneer **Photovoltaics** Lumos **Casement Windows** Kawneer **Tubular Skylights** Solatube Glass PPG Vertical Operable Partitions Skyfold

from solar gain, capture wind, and trace the sun's movement on the walls through the seasons. Solar thresholds that punctuate a central roof garden are vibrantly finished on the exterior but painted white inside to light up spaces within the ground-floor-level student center. Light chimneys also span the three stories of the academic wing to provide vast areas of natural light and greater visual connection where flexible classrooms and seminar spaces, sophisticated science and innovation laboratories, administration and faculty offices, and student lounges are located.

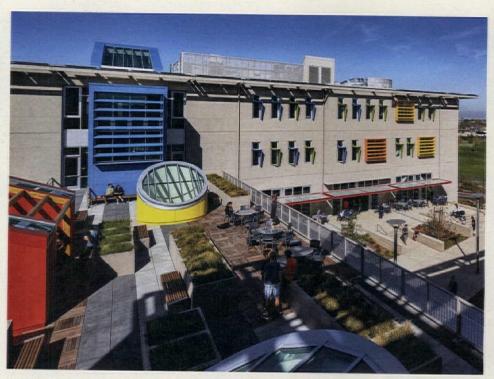
Another three-story wing houses the gymnasium and other publicoriented functions. The compact buildings are organized for minimum footprint, optimum bioclimatic orientation, and maximum landscape. Aside from the roof garden over the student center, a living roof above the basement garage and other landscaped areas combine to create 32,000 square feet of new habitat for indigenous plants and wildlife while linking to the adjacent 12-acre public park. The strategy extends the experience of green space outside the campus to the community stormwater-retention pond and wetlands beyond.

Though the school does contain a garage, over 80 percent of students travel there via Caltrain, the commuter rail service connecting San Francisco and San Mateo and Santa Clara counties and the major force around which this TOD was designed. Most of the remaining students carpool. (While the Transportation Demand Study supported a 30 percent reduction in on-site parking spaces, the city allowed only an 8 percent reduction. Many spaces currently go unused.)

The Nueva School is a model of low-carbon living in more ways than one. With limited space and resources to construct a swimming pool and theater, the school negotiated shared-use agreements with a nearby aquatic center and performing arts facility. This approach engages students in their community and eliminates the cost and embodied resources required to build and maintain new facilities on campus. "Instead of building structures," says Leddy, "we're building relationships." The school makes its own event spaces available for community use.

The semiarid climate of San Mateo is not immune to periodic droughts. The project reduces total potable water use by 59 percent with ultralow-flow fixtures and treats 100 percent of stormwater on site, mainly through pervious paving and biofiltration basins on the 10,000-square-foot living roof.

The roof is also home to one of the building's most distinctive features. A cornice was compulsory for the development, if not a first choice of the building's designers. Given that requirement, the architects furnished the outrigging roof structure with an 87kW photovoltaic array. (Roof space is also reserved for a future 115kW array.) The cornice's bifacial panels provide 14 percent of the project's site energy requirement. "I said to myself, if we're going to do a cornice," recalls Leddy, "then let's give it a job to do!" 65



A roof garden over the student center is one of several outdoor spaces that extend the learning landscape outward, enhancing connections to the community and the natural world.

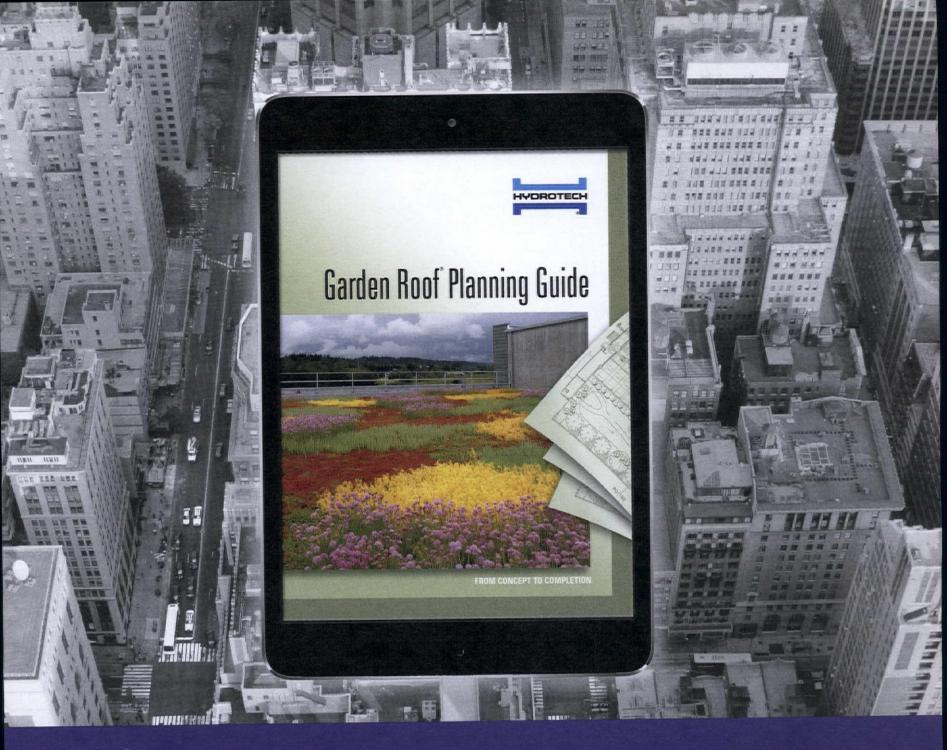


Three-story light-and-air chimneys deliver natural illumination and ventilation at the middle of the 64-foot floor plate while also providing valuable visual connections between floors.



SECTION

- 1 Air/Light Chimney at Central Stair 2 Garage
- 3 Student Center
- 4 Roof Garden
- 5 Faculty Work Areas
- 6 North Entry
- 7 Solar Threshold
- 8 South Entry 9 Roof Entry
- 10 PV canopy



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Make the Grade

A primary school on a former brownfield site outside Paris embeds nature in all aspects of the building—and in the teaching that takes place within it.

BY DAVID SOKOL

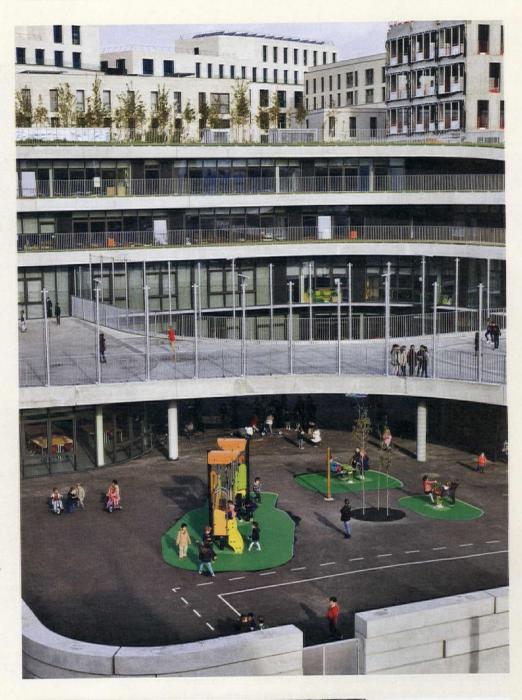
In the new French science-fiction book, *Dreaming 2074*, depictions of Paris toward this century's end may prompt a double take. Alongside more predictable descriptions of smart materials and technology-impregnated bodies, the stories take place against a backdrop in which the historic City of Light is, surprisingly, liberally threaded with "ecological architecture." Wrapped in tendrils and flowering plants, these next-next-generation structures interpret green building in a literal way.

The fantasy attributes these lush buildings to a chimerical Brazilian architect. But readers in the know can point to the Primary School for Sciences and Biodiversity (PSSB), located in the southwestern Parisian suburb Boulogne-Billancourt, as a real-world embodiment of the novel's imaginary architecture.

Designed by locally based Chartier Dalix Architect and currently wrapping up its first academic year, PSSB features a deeply textured concrete-block facade that will gradually fill with greenery and animal habitats. The ribbon-like rooftops include intensive and extensive plantings to nourish both wildlife and young people's curiosity. According to studio principal Frédéric Chartier, the vegetated surfaces are inspired by the ancient, moss- and vine-covered stone walls of the French countryside, and it catapults that image into the future.

If PSSB represents a new chapter in ecologically sensitive building, then its site exemplifies the environmental irresponsibility of the previous century. The public building stands squarely within Île Seguin-Rives de Seine, on the site where Renault began manufacturing cars in 1898. To better compete against Japanese production technology, by 1992 the company had moved all operations to new, farther-flung facilities and halted work at Île Seguin-Rives de Seine. Yet the underlying land had been so contaminated by industry that it took a dozen years of remediation before the prime location was ready for its inevitable redevelopment.

Shortly before the cleanup concluded, a variety of government agencies and concerned stakeholders established Société anonyme d'économie mixte Val de Seine Aménagement (SAEM) to oversee the





The rooftop's different zones correspond with social interactions. Generous paved areas accommodate play, while expansive planted sections include groundcover and space for shrubbery and trees.

TEAM

ARCHITECT Chartier

Engineer EVP (structural)
Consultants F. Boutté
(environmental); AEU
(ecology); Biodiversita
(biodiversity)

General Contractor Bouygues Immobilier

Owner SAEM

SOURCES

Metal/Glass Curtain Wall Technal

Green Roof Agrigexr Lighting Alters/

Sammode

Acoustic Paneling

Barrisol

Windows Technal

site's transformation. The new client entity also assumed basic urban planning duties. SAEM divided the 183 acres, which includes a wedgeshaped island in the Seine as well as northern riverfront, into five zones with different mixes of use. The organization also mandated that housing and offices earn Very High Energy Efficiency certification from France's Haute Qualité Environnementale rating system and that other buildings meet the stricter Bâtiment de basse consommation énergétique (BBC) sustainability standard.

When SAEM advertised the PSSB opportunity in 2010, its stated mission caught the attention of Chartier Dalix. An emphasis on building-integrated biodiversity challenged "the classic notion that in a city, nature is segregated to parkland," Chartier says, adding that "crossing two ambitions like a primary school and a biosphere makes for really good architecture."

The new building comprises a 45,000-square-foot school shared between a 7-classroom preschool and an 11-room elementary facility, plus a publicly accessible 26,000-square-foot gymnasium, which can host tournaments with 250 spectators.

Chartier notes that the blocks were prefabricated in the Seine Valley, as close as possible to the project site. They are produced from five molds for variety: each block is 13 feet long but ranges between 15 3/4 and 31 1/2 inches in height and between 8 and 25 1/2 inches deep. They are assembled in front of PSSB's reinforced-concrete structure at different configurations to yield even greater texture in the wraparound skin. The resulting nooks and crannies, plus the rough surfaces and ribbing of the blocks themselves, support ferns' and mosses' rooting directly in the building and provide habitats for insects and birds. Nest boxes sized for bats, starlings, swifts, and other species have been inserted into the blocks for extra encouragement.

The outward face of each block is polished so that rainwater trickles toward the sides instead of staining PSSB's most visible surfaces. Further, as a security measure, the facade is canted inward at the lower levels of the envelope.

Another Frenchman looms large over vegetated facades—Patrick Blanc's artistic living walls are world renowned. Yet the design team decided to go the harder route of a mineral wall, so as not to thread the building with "extra fertilizer or automatic watering," Chartier says, adding, "It takes a little time for nature to develop autonomy in this situation, and we are not used to it in our societies," perhaps referring to the way Blanc's projects are lush from their launch.

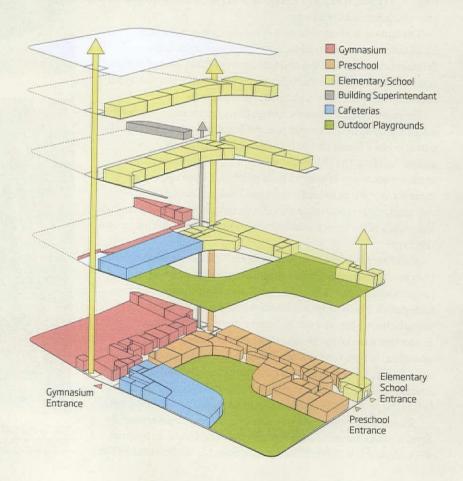
While the green rooftops appear more typical than the vertical garden, their goal is similar. These green expanses include extensive groundcover as well as space for shrubbery. Furthermore, a channel within the gymnasium roof contains over three feet of growing matrix for ash, beech, and fruit-bearing trees.

The rooftop's different plant zones correspond with social interactions. Walkable vegetation accommodates play, while woodland-like settings invite habitat study at the elementary-school level. Chartier says he and partner Pascale Dalix intended this, even though PSSB didn't have an environmental curriculum at the project outset. Now the school requires all teachers to study biodiversity education and incorporate the subject into their lesson plans.

Deep embedding of nature—in both the building and the life of Île Seguin-Rives de Seine—gets Chartier more excited than the solar orientation, LED lighting, or other more predictable sustainability strategies that have already earned PSSB's school component ten Very High rankings in the BBC system. "This is really a place to experiment with making biodiversity work in the city," he says. And that experiment continues this spring, as drones scan the facade for signs of plant species' acclimation or failure, and for nonnative invasion. The image may just inspire a youngster to fill the shoes of a fictional Brazilian architect and to someday wave a green wand over Paris. 68



The 26,000-square-foot gymnasium, a four-story volume anchoring the west side of the complex, can accommodate 250 spectators







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SOLUTION

In Transition

A phase-change material comes out of the woodwork.

BY DAVID SOKOL

According to the basic laws of thermodynamics, phase transitions—melting from solid to liquid, for example—occur by heat transfer. And for a phase-change material (PCM), this heat is stored and released in abundance. In 1992, just a year after opening his architecture office in Zurich, Dietrich Schwarz began to wonder whether PCMs might improve a building's thermal mass.

Transparent insulation in particular piqued Schwarz's interest. "The concept of having one compact solution capable of managing light and energy flows through a facade was new and fascinating," he recalls. By 2000, Schwarz had created a prototype module with paraffin, and in 2004, he introduced a glazing material that substitutes nontoxic calcium chloride hexahydrate as the PCM, since salt hydrates "combine higher performance and lower combustibility," Schwarz says. In the interim, the architect launched the separate company GlassX.

Large buildings specifying GlassX began going online in 2005 and 2006, with the completion of Schwarz's own designs of apartments in nearby Winterthur and Domat/Ems. While the technology improved with each project, its fundamental reliance on calcium chloride hexahydrate has been constant. The salt melts at room temperature, and when a 5/8-inch layer of the translucent material melts, it can absorb as much heat as a 10-inch-thick concrete wall. This transition absorbs both convective heat within occupied space and—unlike PCM insulation hidden inside a building envelope—solar heat gain. Visible light still penetrates the glass, so that electric lighting loads can remain minimal.

By the time the calcium chloride hexahydrate is completely melted, the surrounding air has usually fallen below room temperature. And like that equivalent concrete wall, the GlassX units release heat back into the atmosphere. Come next morning, the salt has completely recrystalized, starting the cycle over again.

Schwarz's invention is not limited to integrated glazing units. One version, GlassX Store, allows an architect to layer PCM inside a facade, which is how Butikofer de Oliveira Vernay Architects used it in the five-year-old Centre Professionnel in Fribourg, Switzerland. The Lausanne-based design team installed approximately 1,200 square feet of GlassX Store panels just inches behind the school's south curtain wall. Because the floor grilles are adjacent to the panels, Schwarz explains, "building ventilation can direct air streams right up them, thereby maximizing thermal performance."

Although Centre Professionnel is not actively collecting energy metrics, Schwarz says informal reports confirm that PCM is helping the building meet its performance goals. Meanwhile, the support office of restaurant company Marché International, completed in 2007 by Beat Kämpfen in Kempttal, Switzerland, quantitatively validates GlassX's usefulness. By calculating thermal mass, solar heat gain, and the warmth generated by employees and their equipment, among other factors, the Zurich architect was able to eliminate the need for mechanical heating and cooling.

Marché International was the first net-zero office building in Switzerland, and it was executed at the market's average cost. The





project also exemplifies another installation type for GlassX, in which a shading device only lets wintertime sunlight through. A transparent prism inserted between outer glass panes reflects direct sunlight above a certain angle of incidence. During these warmer months, diffuse, low-energy rays alone illuminate the interior.

For projects that hold on to their mechanical systems, says Schwarz, "another route is the savings via lower costs for energy and equipment maintenance—the payback takes longer but considerably less than the product's lifetime." Payback periods should decrease considerably this year, when Schwarz releases a version 2.0 of his technology that boosts performance and adds flexibility to optical appearance. Slightly farther out on the horizon, the architect-inventor says, is a fluid-filled equivalent to GlassX, whose current funding for research and development comes from the European Union.

Lausanne-based Butikofer de Oliveira Vernay Architects layered GlassX inside the facade of the Centre Professionnel, which opened in Fribourg, Switzerland. in 2010



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EARTHWATCH

John Grade is an anomaly. Whereas most artists strive to create works that will withstand the ages, the Seattle-based Grade designs his pieces to disintegrate altogether. Over the years, his sculptures have been devoured by termites, pecked to bits by birds, and, in one particularly intriguing instance, stomped on by a wild boar. "In my view, to see sculpture participate in a living process is very interesting," he explains. "Ultimately, everything is going to deteriorate, and rather than deny it, I'm happy to embrace the process."

Never has this been more true than in *Middle Fork*, his most recent project. The name derives from the site of a live hemlock tree found near the middle fork of the Snoqualmie River in the Cascade foothills of North Bend, Washington. An intrepid team of volunteers spent several weeks making plaster molds of the tree, which were later transported and meticulously pieced back together in what is presumably a very roomy artist's studio. "I wanted to translate the experience of being high up in the tree canopy," Grade explains, "and get to know the nuances of a single tree intimately through the slow, careful process of casting its surface."

According to Grade, the finished wood sculpture looks almost as if it were built by a computer or constructed by "industrious homogenized insects." But up close, *Middle Fork* tells a different story, says the artist: "If you study it in person, you quickly recognize how varied the incremental parts are." Volunteers made personal choices of scale, color, shape, and directional flow based on their individual skill level and the amount of time they could devote to the project.

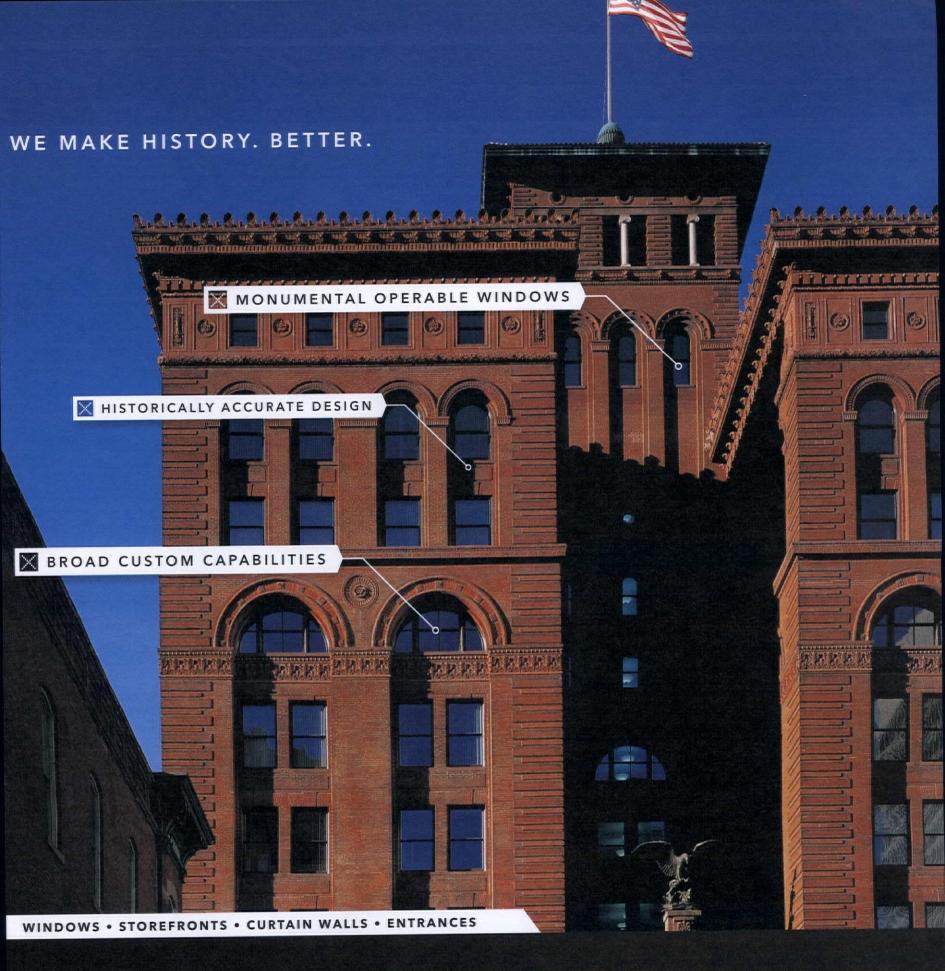
Once it completes the rounds at MadArt Space in Seattle, the Smithsonian's Renwick Gallery, and a sprinkling of art fairs, the sculpture is destined to be carried back to the foot of the tree that inspired its creation. "I have an image in my mind of *Middle Fork* being covered in moss and gradually drooping with age," Grade says. That is one of his favorite parts of the process—seeing what arises once the artwork is left to natural forces. As he puts it, "Preservation, and the controlled white box of a museum, is much less compelling to me."

BY DEREK DE KOFF

CRITICAL POINT



SEATTLE, WASHINGTON John Grade's Middle Fork sculpture is on view at MadArt Space until April 25.



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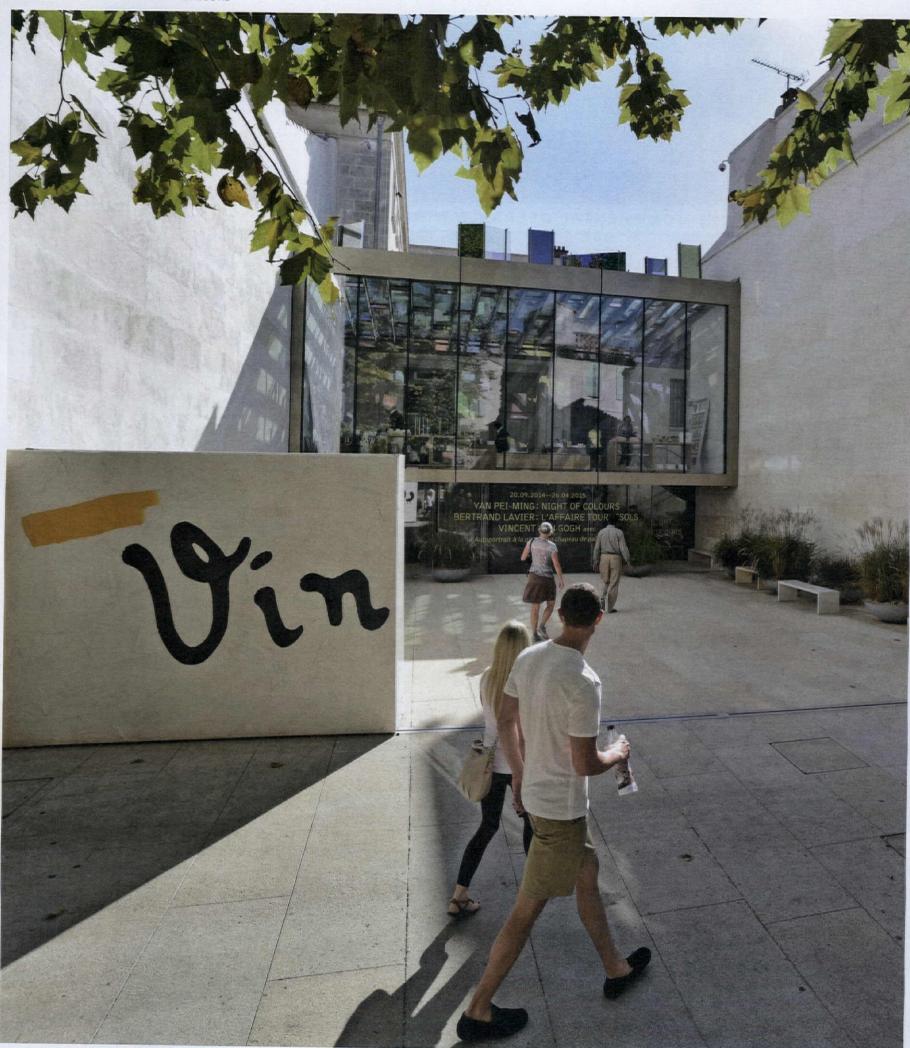
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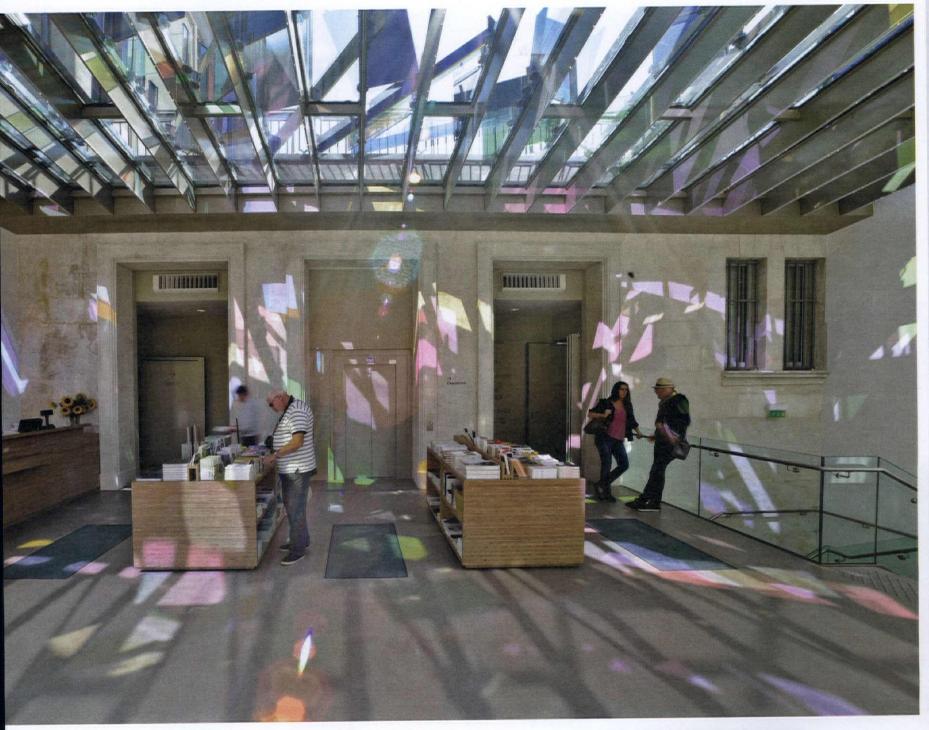
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CONTINUING EDUCATION: DAYLIGHTING





Fondation Vincent van Gogh

Fluor Architecture creates a museum befitting the art. BY JOSEPHINE MINUTILLO

ARLES HAS BEEN an important commercial and cultural center for centuries, and it has several impressive ancient and Romanesque monuments to prove it. But the small city in southern France's idyllic Provence region is known to most of the world for an out-of-towner who briefly called the sunny port on the banks of the Rhône home more than 125 years ago.

Though Vincent van Gogh made Arles famous for the hundreds of unforgettable images of cafés, gardens, vineyards, and

starry nights he created there at the zenith of his artistic production, until now the city had no venue to properly showcase those masterpieces. The new museum for the local Fondation Vincent van Gogh, with the support of the Van Gogh Museum in Amsterdam, enthusiastically embraces art-van Gogh's and more recent works—and the amazing light that drew the Dutch painter to Arles. And it does so with an innovative renovation of a historic four-story stone manor house in the center of the city that includes a



RAINBOW VISION

The violet, blue, green, yellow, orange, red house by Swiss artist Raphael Hefti is an installation of 78 differently colored glass panels (left) atop the glass roof of the second-story museum shop (above), visible courtyard (opposite).



CONTINUING EDUCATION: DAYLIGHTING

FROM ARCHITECTURAL RECORD



 $\textbf{STACKED DECK} \ A \ series \ of triangular \ sheds \ (above), most \ of \ which feature \ north-facing \ glazing, form \ a \ mountain-like topography on the roof over the \ grand \ gallery, bringing \ daylight into the \ main \ exhibition \ space \ (opposite top \ and \ bottom).$

- 1 ENTRY COURTYARD
- 2 MUSEUMSHOP
- 3 MAIN GALLERY
- 4 ATRIUM
- 5 SHEDSKYLIGHTS
- 6 ATRIUMSKYLIGHT
- 7 RAPHAELHEFTI INSTALLATION
- 8 ROOFTERRACE
- 9 ARCADE







two-story steel, wood, and glass addition within its courtyard.

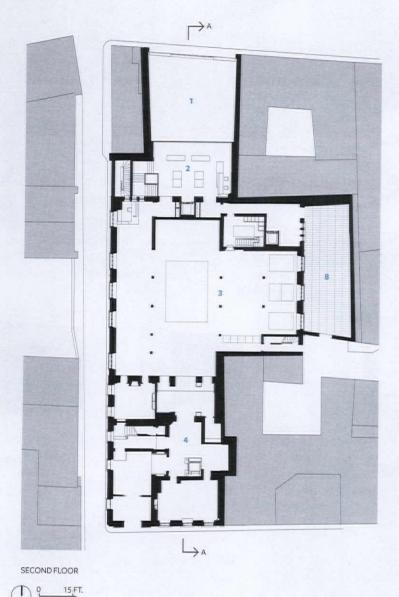
"Van Gogh came to Arles because the light here is very special, so we had to do something very special with the light," says Guillaume Avenard, the Avignon-based coprincipal of Fluor Architecture, the 10-yearold firm he founded with Hervé Schneider. The young designers—who met while working at the studio of François Seigneur, Jean Nouvel's first partner—were prepared to take on the challenge of revamping the 15thcentury Hôtel Léautaud de Donines into a state-of-the-art gallery space; they had previously transformed Arles's 2,000-year-old Roman amphitheater into a temporary stage for summer festivals, complete with the necessary modern amenities.

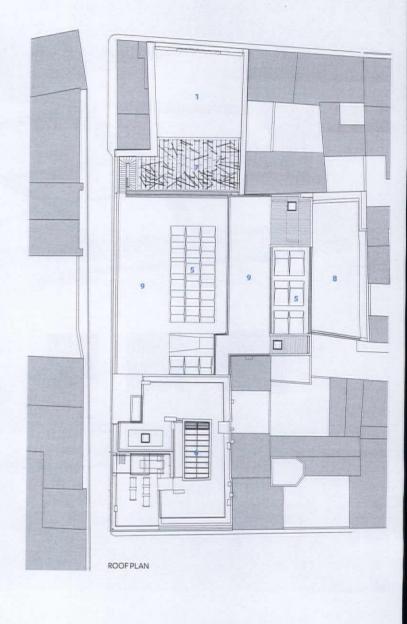
At the museum, visitors encounter a dazzling light show immediately upon entering. Just past the 39-foot-long entrance gate, onto which French artist Bertrand Lavier painted the name Vincent, based on the artist's signature, there is an elaborate glass sculptural project by Swiss artist Raphael Hefti. Installed atop the glass roof of the elevated museum store (made of solar-control glazing), this intricate construction dances with color, creating jewel-like reflections around the courtyard and, most dramatically, within the shop itself.

At the request of Bice Curiger, the artistic director of the Fondation, whose vision it was to incorporate the work of contemporary artists into the new building—a third piece comprises a musical installation by

CONTINUING EDUCATION: DAYLIGHTING FROM ARCHITECTURAL RECORD

- ENTRY COURTYARD
- MUSEUMSHOP
- MAIN GALLERY
- ATRIUM
- SHEDSKYLIGHTS
- ATRIUMSKYLIGHT
- RAPHAFI HEFTI INSTALLATION
- PATIO
- ROOFTERRACE





credits

ARCHITECT: Fluor Architecture - Hervé Schneider; Guillaume Avenard, principals

LIGHTING DESIGN: Ingélux (daylighting); Wonderfulight (electric lighting system)

ENGINEERS: Beccamel (structural); G2i (mechanical)

CONSULTANTS: Raphael Hefti; Betrand Lavier: Fritz Hauser (artists); MYAMO (project management)

CLIENT: Fondation Vincent van Gogh

SIZE: 43,000 square feet

PROJECT COST: \$16.5 million

CONSTRUCTION COST:

\$13 million

COMPLETION DATE:

March 2014

SOURCES

GLASS: Interpane (shop roof); Saint-Gobain (facade); SmartLouvre (shed glazing)

SKYLIGHT: Andriollo

LIGHTING: Erco; Europole; XAL; Zumtobel RZB; Deltalight

Swiss composer Fritz Hauser within a stairwell—Fluor worked closely with Hefti in developing the technical details of the kaleidoscopic installation. The final composition features 78 uniquely colored glass panels in 52 sizes, the largest of which is just over 9feet long. The laminated sheets of glass have a dichroic coating—multiple fine layers of metal oxides that selectively pass light through narrow bands of color while reflecting other hues. The glass sheets are braced by a steel frame and mounted to the steel roof beams at different angles. By absorbing ultraviolet rays, they also help maintain a temperate climate and protect the shop's merchandise from sun damage.

"The position of the panels was determined by physical mock-ups, not computer simulations," explains Avenard. "The problem was how to transmit the colors without allowing too much sunlight and heat inside. The mock-up didn't work when we tried it in Paris. There really is an exceptional light in Arles." (Arles's yearly average of sunny days is 80 percent, and they are notable for high color contrast and shadows, quite different from the diffuse light common in northern Europe.)

The architects faced an even greater challenge designing skylights for the grand gallery that would take advantage of that exceptional light while maintaining conservation standards. "Daylight is the best way to show the spectrum of colors," says Laurent Escaffre of Ingélux Consultants, who helped modulate the natural light and devise an ancillary electric lighting scheme. "We want the benefit of daylight without the risks to the artwork."

The unique solution they came up with is



LIGHTHEARTED The atrium houses vertical circulation, including footbridges and an elevator with panoramic views.

a series of what the architects call "sheds," which produce a mountain-like topography on the roof over the gallery, just out of reach of a public deck where museum visitors can stroll. There are a total of 27 of the woodclad forms, 21 of which feature north-facing glass panels tilted at varying degrees. (Six unglazed sheds are used for storage and housing technical equipment.)

The glazing comprises two layers. Between those is a 1/20-inch-thick screen of tiny metal louvers that blocks all the direct sunlight and almost 90 percent of the sun's heat. "We needed that shield," explains Escaffre. "It cuts out sunbeams but is hardly visible." Daylight is blocked entirely by a blackout shade when particularly sensitive or valuable paintings are on display.

Smaller galleries on the south side of the

building feature motorized shades over windows whose opening and closing is calculated in advance by a predetermined algorithm based on geographic and seasonal considerations, rather than as a reaction to specific conditions via sensors.

LED track lighting, with angles and power intensities precisely calculated for temporary exhibits, which are expected to change three times a year, supplements natural light. According to Escaffre, "LED lighting has become more pervasive in museums. It can render blues betterthan halogens and is better for dimming."

"There were so many surprises in this project," recalls Avenard. "The final result is not what we had in our heads at the beginning, but being inside the spaces is magical, and it was an especially nice moment when the first van Gogh arrived."

Continuing Education



To earn one AIA learning unit (LU), including one hour of health, safety, and welfare (HSW) credit, read this and the accompanying article on One Central Park in "Reflections on Daylight" on ce. architectural record. com. Review the supplemental materialand complete the online test. Upon passing the test, you will receive

 $a \, certificate \, of \, completion, and your \, credit \, will \, be \, automatically reported to \, the \, completion \, and \, certificate \, of \, certi$ AIA. Additional information regarding credit reporting and continuing-education requirements can also be found online at ce. architectural record.com.

Learning Objectives

- 1 Describe daylighting strategies deployed at One Central Park and the Fondation Vincent van Goghand discuss how they enhance user experience.
- ${\bf 2} \quad {\sf Describe} \ {\sf the components} \ {\sf of the heliostatat} \ {\sf One Central Park} \ {\sf and explain} \ {\sf the role}$
- $\textbf{3} \quad \text{Explain} \ \text{how daylighting was introduced into the galleries of the Fondation without}$ compromising conservation standards.
- 4 Describe the electric illumination scheme devised for the Fondation and explain why LEDs were chosen as a light source.

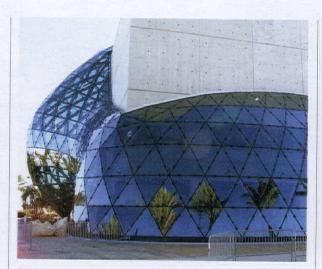
CES Course #1502A

FOR CEU CREDIT, COMPLETE THE ONLINE TEST AT ARCHITECTURAL RECORD. COM OR USE THE ARCHITECTURAL RECORD CONTINUING-EDUCATION APP,

Every Inch Green

IN THE QUEST TO achieve superior environmental performance, architects are treating every detail of a project as a chance to boost sustainability. The following CEUs explore energy efficiency, durability, and other eco-conscious improvements to wellknown building systems and architectural elements—and they uncover some less expected opportunities for going green.





TWO AS ONE A duplex system, like the one for Florida's Salvador Dalí Museum, combines hot-dip galvanizing with powder coating.



WHY GALVANIZE?

Coating fabricated steel in molten zinc-known as hot-dip galvanizingis a cost-effective, low-maintenance method of protecting steel from corrosion. This article explains how hot-dip galvanizing enhances steel's environmental performance and other sustainable aspects of the multistep process. It also describes related duplex systems. (Sponsored by American Galvanizers Association)

-CREDIT 1 HSW



BEAM MINE Energy-saving chilled beams handle HMFH Architects' HVAC needs inside its new Cambridge, Massachusetts, office.



ACTIVE CHILLED BEAMS COME OF AGE

By using water as a thermal medium, active chilled beams provide an energy-efficient alternative to all-air HVAC. Yet the technology does not suit all building/occupancy types, so this course describes methods for specifying a correct chilled-beam application as well as preventing or mitigating condensation in projects. (Sponsored by Price Industries)

-CREDIT 1 HSW



ALL BETS ARE ON The Golden Phoenix casino is now a mixed-use community whose fenestration includes uPVC tilt-turn frames.



FENESTRATION SOLUTIONS FOR EFFICIENCY AND PERFORMANCE

Fenestration impacts energy efficiency and thermal comfort. This article explores increasing window-to-wall ratios in building, and fenestration solutions that pair transparency and performance. (Sponsored by Dow Corning, Menck Windows, Rehau North America, and Wasco Skylights) -CREDIT 1 HSW



LITTLE RASCALS Compared to traditional powder-coated steel, school lockers made of HDPE can better withstand abuse.



THE STRONG AND SUSTAINABLE SOLUTION FOR K-12 SCHOOL LOCKERS

Lockers fabricated from 16-gauge powder-coated steel are so old-school. Learn about lockers made of durable high-density polyethylene and how this plastic material fares against sustainability criteria like recycled content and indoor air quality. (Sponsored by Scranton Products)

-CREDIT 1 HSW, 1 GBCI CE HOUR



MAX-QUERADE Specifying an aluminum cladding system in severalappearances imparts continuous insulation with aesthetic diversity.



INNOVATIONS IN ALUMINUM **CLADDING SYSTEMS**

By eliminating thermal bridges other than fasteners and service openings, continuous insulation can greatly enhance a wall assembly's overall R-value. This article looks at aluminum cladding as a means of achieving continuity. (Sponsored by Longboarda division of Mayne Coatings Corp.)

-CREDIT 1 HSW

-XDRESSYOURSEIT

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The Sweets Spot

SNAP asks Randall Scott, an associate at TPG Architecture in New York City, to weigh in on the latest product buzz in his city and the projects he's working on. We share what's trending in his region on sweets.com.

FIRM IN FOCUS: TPG ARCHITECTURE



RANDALL SCOTT

ASSOCIATE, TPG ARCHITECTURE, NEW YORK CITY

VITAL STATS

FIRM TYPE: ARCHITECTURE + INTERIOR DESIGN

YEAR FOUNDED: 1979

PRINCIPALS: JAMES DOHERTY, MICHAEL FIECHTER, MICHAEL HAYES, JAMES PHILLIPS, FREDERIC STRAUSS, ALEC ZABALLERO

FIRM LOCATIONS: NEW YORK CITY; MELVILLE, NEW YORK; LONDON

FIRM SIZE: 195

WHAT DID YOU RECENTLY SEARCH FOR ON SWEETS.COM? I frequently check Sweets for the MasterFormat numbers to file submittals. Also, I've been researching paint, decorative n, and glazing options. WHY WERE YOU RESEARCHING THOSE? The paint and historic storefront facade searches were for New York City's landmark I. Miller Building in Times Square, a renovation project TPG wrapped up last year that won the Lucy G. Moses Preservation Award. We found a report documenting the many layers of paint used throughout the years. It was determined that the mahogany windows had a dark bronze paint with real metallic flakes. After researching various manufacturers, I came upon

Crescent Bronze, based in Oshkosh, Wisconsin. They were able to match a metallic paint to the original antique bronze spandrel and the trim cladding supplied by M. Cohen and Sons. The paint brought this jewelbox landmark back to life. WHAT OTHER PRODUCTS DID YOU USE FOR THE I. MILLER **PROJECT?** There were Rosso Levanto marble window surrounds, new stuc Milford pink granite plinths. (The M. Cohen and Sonstrim clad a YKK storefront system.) HAVE YOU NOTICED ANY PRODUCT TRENDS IN NEW YORK CITY? The region is attuned to sustainable materials, from glazing to insulation. Also, more care is being taken to preserve history. One can witness this in projects like the High Line. HOW ABOUT IN YOUR PROJECTS IN GENERAL? I specialize in white



box for retailers, historic renovations, and corporate interiors. Glazing has become more important in these for energy conservation and increased transparency and reflection. The Bank of America and One World Trade Center are great examples of this technology. Channel glass also seems to be trending.

WHAT DO YOU SEE AS THE NEXT

even smaller and more efficient.
Création Baumann already
offers drapery fabric with
imbedded LEDs. Another next
big thing might be dynamic
building systems that react
to nature, such as the San
Francisco Federal Building,
which has louvers that close
during the day and open at night
to cool its spaces. —Sheila Kim



What's trending on sweets.com, including a look at top company searches from the New York City region.

TOP SEARCH TERMS IN NEW YORK CITY (OVER A 12-MONTH PERIOD)

ALUMINUM STOREFRONT DOORS RAILINGS

GARAGE DOORS

METAL STAIRS
LAMINATE FLOORS
ALUMINUM WINDOWS
ELEVATOR



Amarr Vista modern residential garage doors.

MANUFACTURERS MOST VIEWED BY NEW YORK CITY—AREA USERS

(OVER A 12-MONTH PERIOD)

BLUMCRAFT OF PITTSBURGH

KAWNEER WIREMOLD EFCO



Blumcraft of Pittsburgh's 1301 tempered-glass door system.

WHAT'S TRENDING IN PAINT

(OVER A 12-MONTH PERIOD)

GLIDDEN PROFESSIONAL

SHERWIN-WILLIAMS
RUST-OLEUM CORPORATION
PROTECH CHEMICAL
PPG ARCHITECTURAL COATINGS



Harmony VOC-free interior paint from Sherwin-Williams.

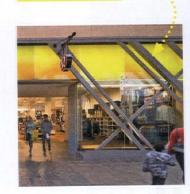
WHAT'S TRENDING IN ENTRANCES AND STOREFRONTS

(OVER A 12-MONTH PERIOD)

EFCC

MANKO WINDOW SYSTEMS
BLUMCRAFT OF PITTSBURGH
W&W GLASS

NANAWALL SYSTEMS



HSW75 storefront series by NanaWall Systems.

WHAT'S TRENDING IN LIGHTING (OVER A 12-MONTH PERIOD)

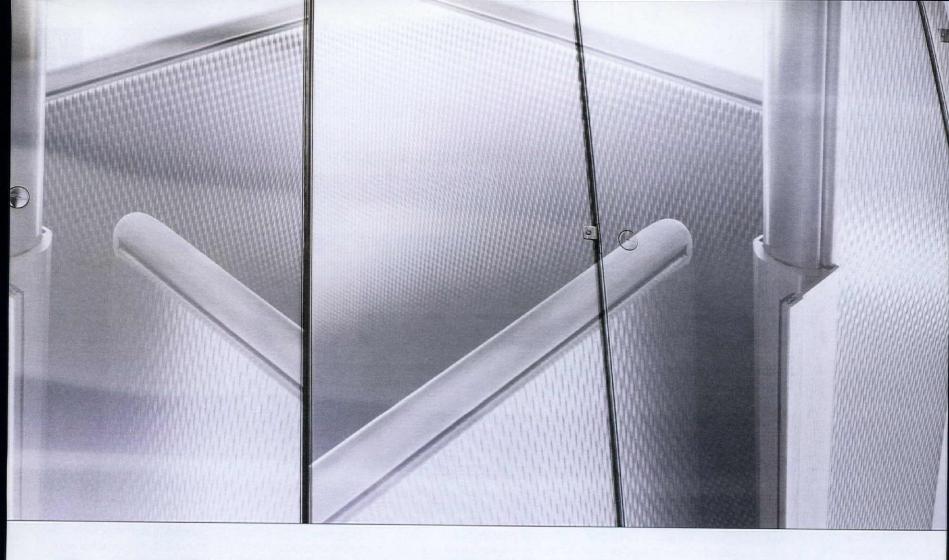
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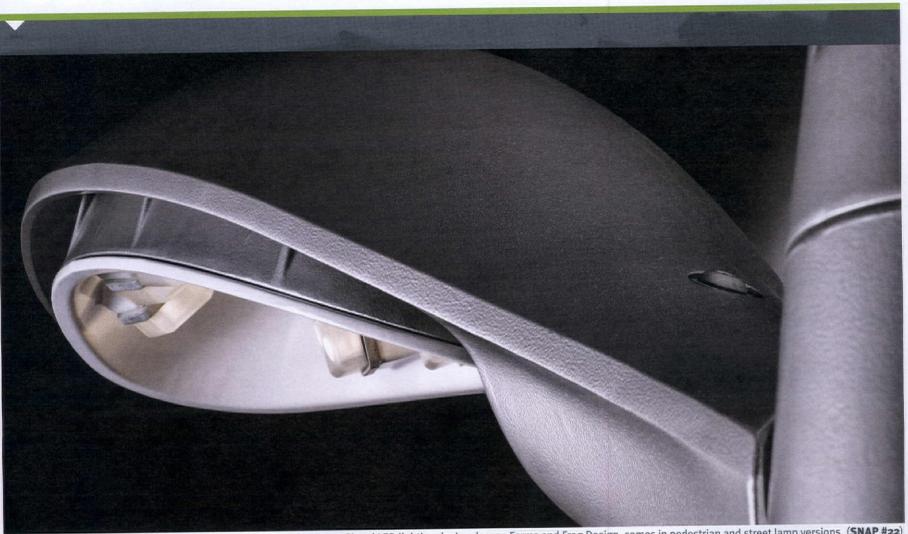
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MANUFACTURERS' SPOTLIGHT SECTION

Look to these pages for products brought to you directly from manufacturers. You'll find the information you need to make *SNAP* decisions: price, performance data, product application, and contact information. Use the reader service card in the issue or go online at sweets.com to request further details.



Signal LED lighting, by Landscape Forms and Frog Design, comes in pedestrian and street lamp versions. (SNAP #22)

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Interior Finishes, Furnishings Pgs. 97-98 Products for finishing and furnishing building interiors, such as flooring, wall coverings, ceilings, furniture, shelving systems, coat racks, and window treatments.

Roofing, Siding, Thermal & Moisture Protection......Pgs. 101-104

Products for constructing the building envelope, such as exterior wall and roof panels, sheathing, thermal insulation, and waterproofing.

Doors, Windows......Pgs. 109-117

Doors, windows, storefronts, entrances, glazed curtain walls, skylights, translucent wall and roof assemblies.

MaterialsPgs. 121-122

Basic products, such as lumber, concrete, and masonry units used in construction. Includes paint, coatings, structural materials and fittings, and products designed for more generic use in multiple applications.

Landscaping, Sitework......Pg. 129

Exterior improvement products, such as site furniture, bicycle racks, bollards, pavers, landscape edging, and exterior green walls. Also includes trellis systems, gazebos, and other site structures.

Electrical, LightingPg. 131

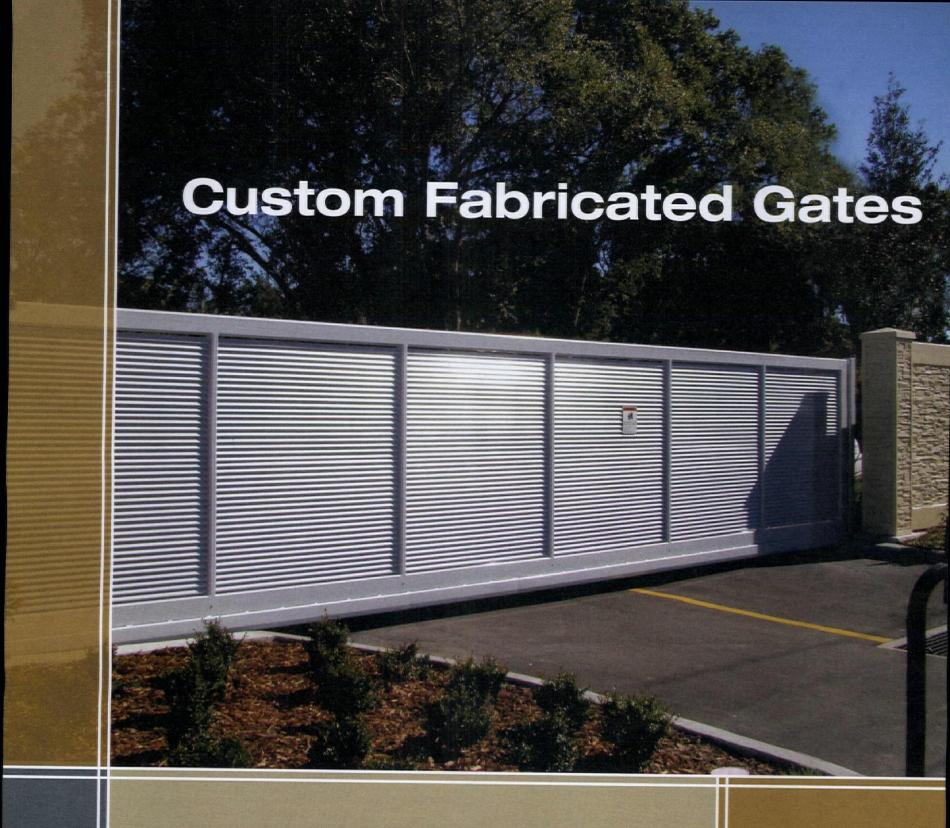
Products for generating, transmitting, distributing, and transforming electrical energy, such as light fixtures and power supplies. Includes intercommunication equipment.

Equipment Pg. 133

Equipment for a broad range of applications, such as A/V and multimedia, conveyance, such as elevators, and household use, including appliances.

Mechanical Systems, HVAC, Plumbing......Pg. 135

Products for conditioning, moving, holding, and otherwise controlling air, water, and other fluids. Includes plumbing products, fans, ventilators, and boilers.



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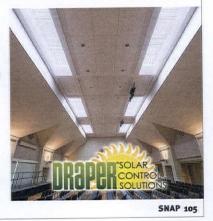
Product Application

 Pictured: First Presbyterian Church, Houston, TX Photography © Barry Champagne, Houston, TX **Performance Data**

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SNAP 107

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Performance Data

- Threat factor: 29.8 on position 1
- · Low-e coatings: Avail. w/ Solarban® 60 VT, Solarban® 67 VT and Solarban® 70XL VT glasses by PPG

www.walkerglass.com 888.320.3030



Booth: 2751

AIA Expo

SNAP 108

SPECIALTY PRODUCTS

SPECIALTY PRODUCTS

GRAFFITI-RESISTANT COATINGS

55

PPG Metal Coil & Extrusion Coatings

Duranar® GR and Coraflon® GR three-coat systems feature a primer and color coat topped with a graffiti-resistant clearcoat that can be cleaned with DuraPrep® Prep 400 graffiti remover by PPG.

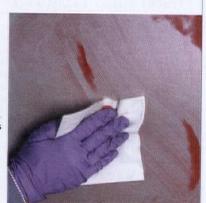
Product Application

· Can eradicate spray paint, pen and marker ink, lipstick, scuff marks, tape residue, bugs, tar and other substances that mar the appearance of commercial buildings

Performance Data

- Duranar GR coatings are available in a variety of low and medium glosses
- Coraflon GR coatings are for high-gloss applications www.ppgideascapes.com

888.PPGIDEA | Sharon Bird: sbird@ppg.com



Booth: 851

AIA Expo

SNAP 109

SPECIALTY PRODUCTS

STAINLESS STEEL DECORATIVE HANDRAIL GREEN

Tri Tech, Inc.

Tri Tech can furnish custom-fabricated stainless steel handrails to meet most designs and specifications. Applications include cable rails, glass handrails, picket rails and standard pipe rails.

Product Application

- · Georgia Tech Caddell Building, Atlanta, GA
- · Kennesaw State University Classroom Building, Kennesaw, GA
- USM College of Business, Hattiesburg, MS

Performance Data

· Meets ADA, IBC, IRC, OSHA, NFPA, ANSI and local building codes; structural calculations available www.tritechhandrails.com

800.941.5504 | ttisales@tritechhandrails.com



SNAP 110

SPECIALTY PRODUCTS

PRECAST CONCRETE STEP-TREADS SS

Camp Logan Cement Works

Their steps are used in all types of multihousing, high-rises, hotels, offices and parking garages.

Product Application

- · Yankee Stadium, New York, NY
- · The Royalton at River Oaks, Houston, TX Triborough Bridge & Tunnel, Brooklyn, NY

Performance Data

 Steel closed riser attachments with a polyester powder-coating anti-rust surface



www.camplogancement.com 800.445.9062 | Matt Huseman



SPECIALTY PRODUCTS

DAYLIGHTING SYSTEM GREEN I WR

Kalwall®

VERTIKAL™: Lightweight composite FRP is a beautiful alternative to heavy channel glass, weighing just 2 lb/ sf, with U-values from .08 to.53U, panels fabricated up to 5'x12'. Avail. 2.75" & 4" thick.

Product Application

- · Dollar General Distribution Center, Bessemer, AL
- Hunter's Point Community MS, New York City, NY
- · Tintern MS, Ringwood, Australia

Performance Data

- Glare-free, museum-quality daylighting™, with best thermal values in fenestration industry
- · Blast-resistant and hurricane-rated options

Kalwall.com

603.627.3861 | Jim Andrus, jandrus@kalwall.com



Booth: 1623 AIA Expo

SPECIALTY PRODUCTS

SNAP 112

SPECIALTY PRODUCTS

GLASS BLOCK RESTORATION

Glass Block of America

Glass block remediated to look like the original installation. Specialists in finding discontinued/ obsolete glass blocks.

Product Application

- · 2100 Connecticut, Washington, DC
- · Boy Scout HQ, Chicago
- · Lenox Hill Hospital, NY, NY
- · Historic Hecht Warehouse, Washington, DC



www.glassblockofamerica.com 877.280.7700 | Steve Boesch



READINESS LOCKERS WR

Penco Products - Patriot™ Lockers

Gear and Duty Lockers answer the call for law enforcement with a fully equipped interior and private storage. Turnout Lockers offer an open front and smooth frame allowing easy retrieval of equipment.

Product Application

- · Law enforcement/fire & rescue · Armed forces
- · School athletics
- **Performance Data**
- · Welded or knocked down (KD) • Duty: 60 or 72"H x 18 or 24"W. Gear/turnout: 72" or 76"H welded with base x 18, 24, 30, 36, 42 or 48"W

www.pencoproducts.com

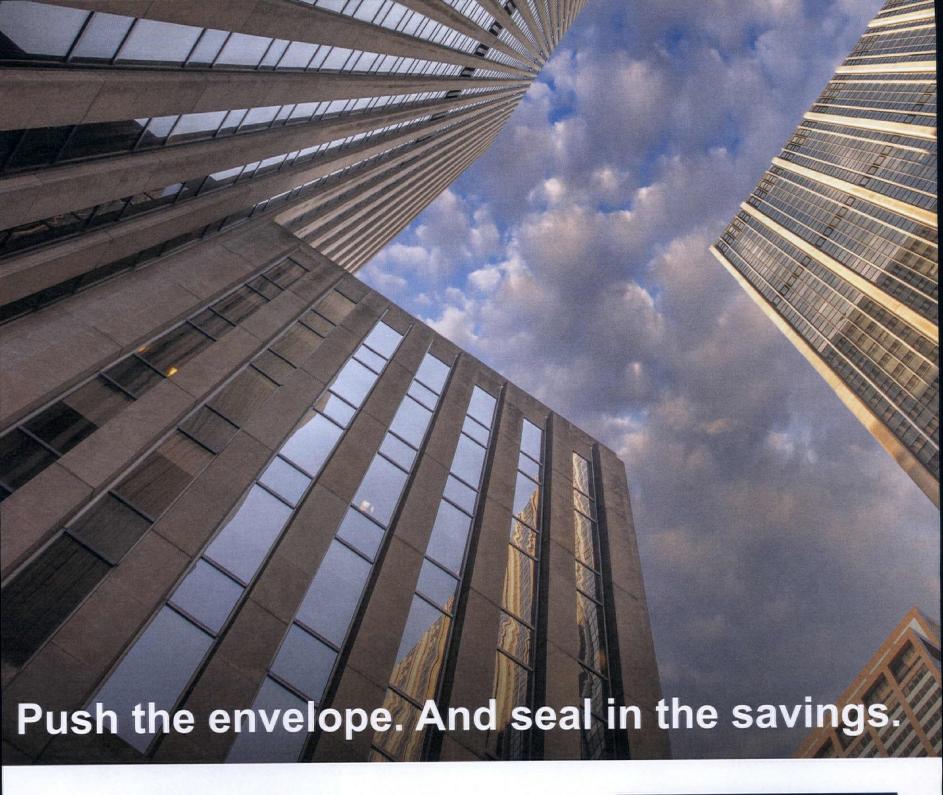
800.562.1000 Booth: 3022





AIA Expo





Dow Corning® DefendAir 200
The only water-based silicone air barrier complemented by a fully compatible system.

You know us. You trust us. You prefer our sealants. Now you can wrap your building envelope with a complete warranted system of unique silicone weatherproofing properties that meet your needs for high performance designs.

So push the envelope. Go beyond the limits of other air barriers and wrap your building in a brand you know, with a technology you can trust.

Learn more. BuildaBetterBarrier.com

DOW CORNING

High Performance Building Solutions



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Super Sky Products not only designs and manufactures the highest quality custom skylights and sloped glazing systems, but also specializes in...

SKYLIGHT REPAIR & RENOVATION

What can Super Sky do for You?

Repair Make necessary repairs to existing skylights

and eliminate leaks.

Refurbish Remove and replace all existing sealant and

recaulk the system. New caps and pressure bars with gaskets can be provided, for a

"like new" skylight.

Reglaze Replace the glass in existing skylights due to

seal failure or upgrade to high performance

and laminated safety glazing.

Replace If the system is old and unsafe, we can offer

efficient solutions to replace the skylight and possibly value engineer the system design.

Historical Renovation

Chicago Cultural Center Chicago, IL





New Construction



Super Sky Products Enterprises, LLC

SPECIALTY PRODUCTS

ACOUSTICAL BARRIERS SS | GREEN | NEW

George Koch Sons

Concealed Fastener Acoustical Barrier Panel System. New innovative design is ideal for high-profile architectural applications installed either vertically or horizontally.

Product Application

- · HVAC equipment roof screens
- · Power generation barriers and enclosures
- · Transportation barriers

Performance Data

- · Sound transmission loss: STC 42
- · Noise reduction coefficient: 1.0

www.kochllc.com/acoustical-solutions 888.873.5624 | Dan Hostetler



SNAP 115

ICC-ES CERTIFIED FOUNDATION FLOOD VENTS

NEW | GREEN

Smart Vent® Products, Inc. Flood Risk Evaluator (FRE)™

Request an FRE Project Form to send in your project details and receive compliance checks on your elevations, floor levels, enclosure heights, flood openings, flood zone determination and more.

Product Application

 HSW Floodproofing courses/CAD files avail. in Arch. Record and sweets.com

Performance Data

- Dual-function, insulated models
- Models for residential and commercial applications
- Made in the USA from Marine Grade 316 stainless steel

877.441.8368 | info@smartvent.com



Booth: 3036

AIA Expo

SNAP 116

SPECIALTY PRODUCTS

ROOF & FLOOR DECK CEILING SYSTEMS

WR I GREEN

EPIC Metals

EPIC's architectural roof and floor deck ceiling systems are specified for long spans and superior acoustical performance.

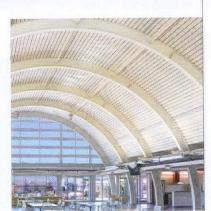
Product Application

- Schools, universities, airports
- · Libraries, natatoriums, transit stations
- · Canopies, museums, office buildings

Performance Data

 Architectural, spans to 55 ft, green qualities, hanging feature, superior acoustics

www.epicmetals.com 877.696.3742 | Ed Thomas



Booth: 2437

AIA Expo

SNAP 117

SPECIALTY PRODUCTS

SPECIALTY PRODUCTS

BIRD-PROOF YOUR BUILDING S I GREEN I NEW

Bird Barrier America, Inc.

Bird-Shock® Flex-Track® is a low-profile ledge deterrent system that is effective against all species of pest birds, conditioning them to stay away.

Product Application

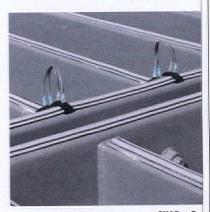
- Use on any surface where low visibility is key
- · Parapets, roof peaks, beams, ledges, etc.

Performance Data

- . New alarm to monitor the system 24/7
- Only 1/4-in. high, colors to match building
- · Anti-arcing base
- Flexible base conforms to building surface
- · Solar chargers available

www.birdbarrier.com

800.503.5444 | Liz Richter



SNAP 118

DETENTION SURFACE PADDING SSS | GREEN

Padded Surfaces by B&E Inc.

Surface padding system for use in jail cells, time-out rooms and psychiatric rooms where violent behavior may result in injury.

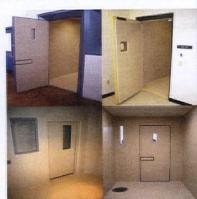
Product Application

- · Correctional: jails, prisons, courthouses
- · Healthcare: psychiatric, behavioral health, adolescent
- · Educational: time-out rooms

Performance Data

- · Class A flame spread
- · UL listed

www.paddedsurfaces.com 317.243.2233 | Mark Spray



SPECIALTY PRODUCTS

SNAP 119

SPECIALTY PRODUCTS

ACCESS FLOORING SYSTEM

Haworth

Haworth Raised Access Floors are the foundation for spaces that adapt to workplace needs. TecCrete Raised Access Floors are a durable, dependable and architectural solution for a variety of spaces.

Product Application

- Offices new construction & renovation
- · Education & libraries
- Data centers
- Casinos

Performance Data

- · Longest warranty in the industry
- · Concentrated loads from 1,250 2,500 lb

www.haworth.com/home/floors

616.393.3000 | laura.stadler@haworth.com



SNAP 120

SPECIALTY PRODUCTS

SPECIALTY PRODUCTS

CUSTOM ALUMINUM TRELLISES SS I GREEN

Architectural Grilles & Sunshades, Inc.

AGS, Inc.'s aluminum trellises are practical while being decorative; from shading large, open areas to providing unique entrance ways.

Product Application

- · IU Teeter Building, Bloomington, IN
- · Express Scripts, Florence, NJ
- · Holiday Inn, New York, NY **Performance Data**
- · Manufactured from recycled materials
- · Count towards LEED point requirements





SNAP 121

MAXIMIZE YOUR IDEA-SHARING SPACE

K-Pro Specialty Products

Horizontal sliding writing spaces enhance any space with layered panels and tracks. The porcelain enamel steel surfaces combine functionality with a modern aesthetic and lasting durability.

Product Application

- · Educational institutions
- · Business offices
- **Performance Data**
- Multiple sliding track and panel options · With or without housing (can fill existing spaces)
- · Custom sizes and options available

www.k-prosteel.com 330.668.1515 | info@k-prosteel.com



SNAP 122

All products in this section are accessible on sweets.com.

\$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge G = Product marketed as green | NEW = Released in the past 12 months

FOLDING STAIRWAY

Precision Ladders, LLC

Automatic Super Simplex Folding Stairway opens and unfolds at the press of a button. Stair can be operated from above or below for ceiling heights up to 16 ft.

Product Application

- . University of Memphis Clock Tower, Memphis, TN
- I-78 Toll Plaza, Blackwood, NJ
- Fort Saskatchewan Hospital, Edmonton, Alberta

Performance Data

· 500-lb load rating with actual shear of rivets tested to 1,175 lb; steel frame, extruded aluminum treads

www.precisionladders.com 800.225.7814 | Steve Fugate



SNAP 123

FRENCH-DOOR WALL OVEN

GE Appliances

GE Monogram ZET1FHSS: 30-in. professional French-door electronic convection single-wall oven.

Product Application

- · French-door design
- · True European Convection with Direct Air
- Exclusive Self-Clean (2 full-extension, 1 regular) oven racks

Performance Data

geappliances.com

• 28-3/16-in. x 27-15/16-in. D x 29-3/4-in. W



SPECIALTY PRODUCTS

SNAP 124

SPECIALTY PRODUCTS

SPECIALTY PRODUCTS

VENT GRILLES

OGi Architectural Metal Solutions - an Ohio **Gratings Company**

The Vent Grille (VG Series) is a superior architectural close mesh grating product for interior or exterior applications and can meet ADA requirements.

Product Application

- . HVAC ventilation grilles & entrance mats
- · Tree grates & decorative grilles
- . Trenches & fountains

Performance Data

- Manufactured from stainless steel (304 or 316 alloy)
- . Clear openings can be as narrow as 1/4 inch
- · Finish is a #4 Mechanical

www.ohiogratings.com

800.321.9800 | Jason Richter



SNAP 125

SPECIALTY PRODUCTS

ACCESS SOLUTIONS

UPNOVR, Inc.

UPNOVR fabricates fixed-access ladders designed to meet a variety of applications including interior/exterior roof, mezzanine and crossover access.

Product Application

- · 200 series for climbs under 20 ft
- 300 (safety cage) for climbs over 20 ft
- · 500 series for ship's ladders

Performance Data

- Lightweight high-strength aluminum construction
- · Accessories: security doors, safety up posts, platforms

www.upnovr.com

603.625.8639 | Shawn Gosselin



SPECIALTY PRODUCTS

EASY-CLOSE OPTION FOR LINEAR TRACK

Accuride International

If you've discovered the versatility of Accuride's 115RC Linear Track, then you'll love its Easy-Close option. Ideal for lighter loads, the device smoothly stops movement at either end of the track.

Product Application

- · Medical or commercial casework
- · Residential or school casework
- · Any light-duty linear track projects

Performance Data

- · Adds popular Easy-Close dampening technology to the 115RC Linear Track System
- · Best for lighter loads, up to 44-lb load capacity

www.accuride.com

562.903.0200 | sales@accuride.com



SNAP 127

SPECIALTY PRODUCTS

DESIGNING TODAY FOR YOUR TOMORROW

Best Sign Systems, Inc.

The Strata series is a new, curved-face, modular architectural signage system. The complete sign solution combines a wide range of sign types and interchangeable ADA or graphic panels.

Product Application

- · Waterfront US Navy Milcon, Bahrain
- · The Howard Theatre Restoration, Greenbelt, MD
- · Waldorf West Library, Waldorf, MD

Performance Data

· Modular design means lower cost, less waste and lower impact on the environment

www.bestsigns.com 800.235.2378 | Lisa Young



SNAP 128

SPECIALTY PRODUCTS

SPECIALTY PRODUCTS

THE SOUND OF SILENCE

55

Freudenberg Nonwovens

SoundTex Acoustical Nonwoven: Thin acoustical fleece backer for metal and wooden perforated ceilings.

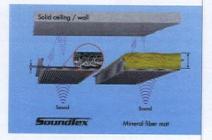
Product Application

- · Airports/transportation hubs
- · Museums/convention centers
- · Restaurants/office buildings

Performance Data

- · Very thin (only 0.2 mm)
- · Sound absorption (up to 0.75 NRC)

www.freudenberg-nw.com 919.620.7074 | Bill Mordecai



SNAP 129

HVAC GRILLES: BAR, PERFORATED & SPECIALTY WR I GREEN

Architectural Grille

Custom designed to meet architectural & HVAC industry standards, providing optimum durability & performance in any environment without sacrificing style. Available in 6 models with 9 frame styles.

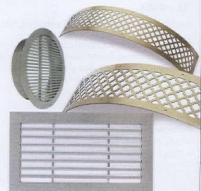
Product Application

- · Residential: single & multi dwellings
- Commercial
- · Hospitality: hotels, restaurants, bars
- · Interior & exterior applications

Performance Data

- · Various degrees of deflection & curvature available
- · Mitered corners, beveled edges & access doors

www.archgrille.com | shop online 800.387.6267 | info@archgrille.com









Feel secure choosing Madrax for innovative bicycle security needs. For more than 25 years we have provided bicycle security that is durable and protects bikes from theft and adverse conditions.



COUNTER SUPPORT BRACKET

Rangine Corporation/Rakks

Rakks Eclipse Brackets can support counters or shelves up to 18 in. deep. This attractive low-profile design is easy to install with no visible hardware.

Product Application

- Commercial

Performance Data

- Eclipse Brackets can support loads up to 300 lb per pair sold in clear and black anodized finishes
- Machined aluminum ends provide a smooth and near seamless termination

www.rakks.com 800.826.6006 | David Greenberg



SPECIALTY PRODUCTS

SNAP 131

SPECIALTY PRODUCTS

SMOKE & FIRE CURTAINS

The Bilco Company

Smoke and fire curtains prevent the movement of smoke and heat, helping occupants escape, limiting property damage and aiding firefighters.

Performance Data

- · Curtains stay hidden until needed
- Curtains automatically lower upon receiving a signal from fire detection system



SPECIALTY PRODUCTS

SNAP 132

SPECIALTY PRODUCTS

www.bilco-colt.com 800.366.6530 | colt@bilco.com

ULTRA-SAFE ROOF ACCESS

LadderPort - Brighton, MI, USA

Patented permanently mounted ladder receiver. **Product Application**

- · Many models to fit any building requiring roof access
- · Meets new fire department ordinance, OSHA and code regulations

Performance Data

- Ultimate solution for safest roof access and highest building security
- Safe, inexpensive, durable answer for municipal and private buildings

www.ladderport.com

800.770.8851 | michele@ladderport.com



SNAP 133

ALUMINUM STADIUM CHAIRS

WR I NEW

Sturdisteel

The Sturdi Series 6000 is a top-of-the-line, all-aluminum stadium chair suitable for all spectator venues requiring a reserved section or VIP seating. Ideal for both new or existing facilities.

Product Application

- · Football or soccer stadiums
- · Baseball or softball stadiums
- · Gymnasiums or arenas

Performance Data

- Aluminum alloy with anodized aluminum seats & backs
- Offered in 18-in., 19-in., 20-in., 21-in. and 22-in.
- · Optional powdercoated finished backs are available

www.sturdisteel.com

800.433.3116 | info@sturdisteel.com



SNAP 134



Are all window coverings manufacturers the same when it comes to commercial programs and products? The facts speak for themselves. In business nearly 25 years, CACO is a leader in the contract market with commercial products that gives you extensive across-the-board choices all made with "American workmanship and pride."

- · Competitive pricing
- Installation support
- Quick manufacturing times
- Architectural support
- Commercial sampling and literature
- · The highest standard in packaging
- The best designed and innovative products in the industry
- All corded products comply with the WCMA-A 100.1 Safety Standard
- Quick quote turnaround time (faxed or emailed) Concise product specifications and shop drawings on our website
 - LEED project support on aluminum blinds and roller shades
 - Approved in Master Spec on Horizontal Blinds, Verticals and Roller Shades
 - Professional one on one support, real people you can talk to and get answers
 - Support for the "Buy American Act"

There are no better reasons to see why CACO, Inc. Window Fashions can bring "American Made Pride" back to any project. Visit us at www.cacoinc.com or call (800) 552-5278

SPECIALTY PRODUCTS

LOW-IRON GLASS

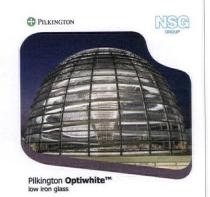
Pilkington North America

Pilkington Optiwhite™ is a low-iron extra-clear float glass with very high light transmission. It is practically colorless, and the green cast inherent to other glasses is not present.

Product Application

- · Storefronts and displays
- · Total vision system entries
- · Appliance glass
- Solar collectors and photovoltaics

www.pilkington.com/na 800.221.0444 | buildingproducts.pna@nsg.com



SPECIALTY PRODUCTS

PORTABLE STEEL BUILDINGS, GUARDHOUSES & BOOTHS

Par-Kut International, Inc.

Security guardhouses, industrial operator shelters, parking cashier booths, in-plant offices, built-toorder enclosures, ticket booths, smoke shelters, elevated pulpits, control rooms & more.

Product Application

- · Six Flags Great Adventure, Jackson, NJ
- · LaGuardia Airport, Queens, NY
- Interstate Warehousing, Franklin, IN

Performance Data

- Highly durable in rough conditions
- · Portable or code compliant & permanent

www.parkut.com 586.468.2947 | Tom Duemling sales@parkut.com



SPECIALTY PRODUCTS

ANTI-SLIP STAIR TREADS & NOSINGS

Wooster Products, Inc.

Anti-Slip Safety Stair and Walkway Products for new construction and renovation. Brand names include Supergrit, Spectra, Alumogrit, Stairmaster and NITEGLOW.

Product Application

- Commercial and residential buildings
- Transit systems
- · Stadiums and ballparks

Performance Data

- Indoor and outdoor use
- ADA, New York MEA, IBC and IFC compliant
- Available in a variety of profiles and colors

www.wooster-products.com

800.321.4936



Booth: 3037

AIA Expo

SNAP 137

SPECIALTY PRODUCTS

CUSTOM DECORATIVE METAL STAIRS \$\$ | GREEN

Couturier Iron Craft, Inc.

Couturier's custom decorative metal stairs and railings are chosen by architects and designers to establish a visual anchor point in their projects. Couturier provides innovative stairs that fit.

Product Application

- Circular, straight, ellipse stairs
- · Stainless steel, aluminum, glass
- · Handcrafted decorative metal railings

Performance Data

- Design and engineering services
- 100% self-performed fabrication and installation
- · Design-build partner

www.couturierironcraft.com

800.670.6123 | sales@couturierironcraft.com



SNAP 138

CREATING A SAFER ENVIRONMENT

begins by securing the perimeter











AMERISTARFENCE.COM 800-321-8724 ASSA ABLOY, the global leader in door opening solutions





AMERISTAR ASSA ABLOY

All products in this section are accessible on sweets.com. \$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge G = Product marketed as green | NEW = Released in the past 12 months

SPECIALTY PRODUCTS

ADA-COMPLIANT, MULTIPURPOSE PUSH BUTTON

Safety Technology International, Inc. (STI)

3-in-1 Stopper® Station: 3-in-1 button offers three operation choices for the price of one. User easily selects momentary or latching (Turn-to-Reset or Key-to-Reset).

Product Application

- · Button inserts include: exit, push to exit, push or blank
- · Optional LED button insert illuminates red, green or white

Performance Data

- · Three button operation choices in one
- 2 Form "C" contacts rated 10 A @ 125/250 VAC, 1/2 HP 30 VDC, 6A

www.sti-usa.com/sw19

800.888.4784 | Jenny Weil, Inside Sales Manager



SNAP 139

SPECIALTY PRODUCTS

FLOOD PROTECTION FOR ANY LOCATION WR I NEW

Walz & Krenzer, Inc.

Removable QuickWall:

Successful deployment of the QuickWall for Whitney Museum in New York City. Custom flood barriers and watertight doors since 1939.

Product Application

- · Retail stores, parking garages
- · Hospitals, office buildings
- Any location that requires minimal appearance when barrier is not deployed



www.floodbarriers.com 203.267.5712 | Tom Themel

SNAP 140

SPECIALTY PRODUCTS

INTRODUCING "EXPRESS YOURSELF" COLORS

WR | GREEN | NEW

Feeney, Inc. (DesignRail®)

Explore five bold new colors and endless possibilities with DesignRail® aluminum railing systems. Customizable, ultra-durable and easy to install and maintain.

Product Application

- · Residential, commercial, institutional projects
- · Interior and exterior settings
- · LEED projects, recycled content eligibility

Performance Data

- · Finishes meet rigorous AAMA-2604 coating specs
- · Pre-engineered systems with commercial-grade 6000-series aluminum extrusions

www.feeney6.com

800.888.2418 | Trang Nguyen-Soriano



SNAP 141

SPECIALTY PRODUCTS

SAFETY BARRIERS

NEW I GREEN I WR

A-Safe Inc.

A-Safe products are made of a flexible polymer that absorbs the force of an impact and prevents damage to the vehicle and concrete.

Product Application

- · Used in warehouses, distribution sites and airports
- · Freezer and hygienic options are available

Performance Data

- · Blue chip customers in food, pharmaceutical and veterinary products
- · Extensive experience in automotive, trucking and airports
- · Meets and exceeds safety requirements

www.asafe.us

866.858.0895 | sales@asafe.us



SNAP 142

SPECIALTY PRODUCTS

PERFORATED PANELS

ATAS International, Inc.

ATAS offers numerous perforation patterns, on a wide variety of panel profiles. An ideal choice for equipment screens, sun barriers or wall applications. Available in 31 standard colors.

Product Application

- · Equipment screens
- Sun barriers
- · Wall applications







SPECIALTY PRODUCTS

Booth: 2931

AIA Expo

SNAP 143

www.atas.com

800.468.1441 | info@atas.com

CLEAR ROLLING SECURITY SHUTTERS

QMI Security Solutions

The new LX6 clear polycarbonate slat shutter is clear protection that still rolls into a small box housing-motorized or manual.

Product Application

- · Outdoor restaurants for wind & security
- · Storefront protection for high-end retailers
- · Room divider partitions for sound & security

Performance Data

- · Manual spring assist operation up to 100 sq ft
- · Motorized operation up to 280 sq ft

www.qmiusa.com 800.446.2500 | Tom Miller





Life's all about change.

Walker Display helps you design an efficient system for exhibiting artwork anywhere. The functional no-nails design works on all wall surfaces, allowing creativity and easy rearrangement of artwork.



COMPLETE ONLINE CATALOG 800-234-7614 www.walkerdisplay.com SNAP 56

Alumiline Metal Ceilings & Walls





Ceilings You Can Look Up Too!



Alumiline, Linear Metal Ceilings & Walls

The Alumiline Linear Metal ceiling system panels are available in elegant 8', 10', or other custom lengths. This industry-first in ceiling panels is made from extruded aluminum and is not pan rolled like traditional metal ceiling panels. Alumiline is an excellent choice for external applications or high humidity environments such as soffits, carports or swimming pools.

FEATURES:

- Fast & Easy Installation
- Available for Exterior Applications
- ▶ Installs to New or Existing 15/16" Heavy Duty Grid with Simple Clip Attachment
- No Special Tools Required for Installation Clips
- Washable, Scrubbable, Mold & Mildew Resistant
- Available in 8' or 10' lengths; Custom Lengths Available
- Dimensions are $3/4" \times 3^{1}/4"$ Plank -3/4" Reveal -4" Module
- ▶ Aluminum Trim Available
- Acoustical Control is Accomplished by Installing Echo Eliminator™ or Quiet Liner™
- Can be Used on Vertical Wall Applications
- Scored, Radius, or Barrel Vault Instructions Available Using Radius Grid

FINISHED OPTIONS:

- · Anodized in Solid Colors · Powder Coated
- Wood Grain Vinyl Wrap

APPLICATIONS:

- Ceilings Walls Hallways Cafeterias Restaurants Lobbies
- Shopping Malls Swimming Pools Ice Rinks Carports Offices
- Conference Rooms Houses of Worship Schools Practice Rooms
- Medical Facilities Warehouses Exhibition Space Train Stations
- Airports
 Concert Halls
 Nightclubs
 Multipurpose Rooms
- Public Spaces Convention Centers Home Theaters Pro Audio/ Recording Studios





Alumiline - Bottom View

Alumiline - Top View

123 Columbia Court North, Chaska, MN 55318 | 1.800.448.0121 | Fax: 952.448.2613 e-mail: sales@acousticalsurfaces.com | www.acousticalsurfaces.com

PRODUCTS FOR EVERY FLOOR CHALLENGE

And the tools to help you solve them.

With a complete line of gypsum and self-leveling underlayments, sound control mats and moisture vapor barriers, Maxxon has the ideal products to cover any floor challenge. Maxxon's comprehensive product line is ideal for multifamily, single family, commercial or renovation projects.

Maxxon products are:

STRONG – With compressive strengths of up to 5,500 psi, Maxxon Underlayments flatten floors and provide a suitable substrate for virtually any finished floor good.

QUIET – Offering ten levels of sound control, Acousti-Mat Superior Sound Control Systems can guiet any floor assembly.

SAFE – Maxxon gypsum underlayments and sound control mats are GREENGUARD Gold Certified, ensuring a healthy environment for building occupants.

Explore Maxxon's solutions for quieting your building with our Interactive System Selector. Identifying the right products, fire ratings and sound ratings for your project has never been easier. Explore the selector at

www.Maxxon.ca/selector



800-356-7887 • info@maxxon.com

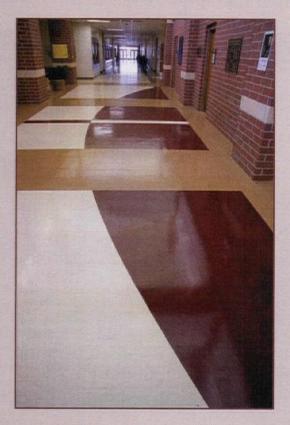
SNAP 275 www.MaxxonCorporation.com







MUSSON SHEET RUBBER FLOORING





From corridors to hallways to multi-purpose rooms, Musson Sheet Rubber is the perfect product for design, comfort, longevity and reduced maintenance cost. Musson Sheet Rubber requires no waxes or finishes which eliminates the time and cost involved in stripping and waxing; simply dry buff to the desired finish. Available in over sixty colors, it is easy to create a design to fit any application while fully taking advantage of sheet rubber's beauty and long life features.





Put your next stone project on the fast track.

ast Track Stone, from IBP, is an efficient, cost-effective way to bring the elegance of stone to residential and low- to mid-rise commercial projects.

Unlike conventional stone veneers, Fast Track Stone doesn't require a concrete footing to support the weight of the masonry. This innovative masonry-support system weighs as little as 14 lb./sq.ft. and installs over CMU, precast concrete, wood stud, or metal stud walls.

Simple Installation

Fast Track Stone consists of extruded aluminum support channels, aluminum support clips, flexible centering cushions, screws, shims, backer rod, and sealant.

Once the starter channel is installed, transition channels are secured from bottom to top—ending with a top receiver channel with an integrated drip edge. The stone units themselves slide or click into place for a sturdy, secure fit.

Detail drawings and technical assistance are available from IBP's in-house engineering department.

Premium Masonry Products

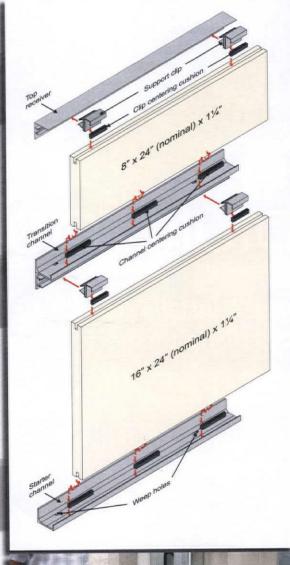
Fast Track Stone is engineered for panels from two premier sources: limestone from Texas Quarries; and RockCast® Architectural Masonry Veneer units from Reading Rock. Standard panel sizes are 16" × 24" and 8" × 24", with a 11/4" thickness. Ask your IBP representative or distributor for details. If you're attending AIA 2014, please visit IBP at booth #3960, and get ready to put your creativity on the fast track.



IBP National Sales: 3024 Acme Brick Plaza • Fort Worth, TX 76109 1-800-932-2263 • fasttrackstone.com • ibpglassblock.com

Kirkland Cancer Center parking structure, Jackson, TN

Architect: Davis-Stokes Collaborative, PC, Brentwood, TN General Contractor: Brasfield & Gorrie, LLC, Nashville, TN Masonry Contractor: Kelly Construction Co., Brentwood, TN













protection along with inspiring designs. Stonhard manufactures and installs seamless

floors for commercial spaces; stadiums, schools, hospitals, hotels and office environments.

www.stonhard.com 800.257.7953

Performance, design and a single source warranty too.

Stonhard is an ISO 9001 Registered Company ©2015 Stonhard®

See us at AIA in Atlanta, Booth #3769

FLOORS FOR EVERY ENVIRONMENT

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Equipment Pgs Mechanical Systems, HVAC, Plumbing Pgs.

INTERIOR FINISHES, FURNISHINGS

MANTELS

Driwood Moulding Company

Driwood's custom design department and millwork shop created this elegant Greek revival style fireplace mantel for a local customer.

Product Application

· Aycock residence, Florence, SC (pictured)

Performance Data

- · Custom mantels set any mood from romantic to fanciful
- · Custom Design Service staff will turn ideas into reality



www.driwood.com

843.669.2478 | sales@driwood.com

SNAP 145

INTERIOR FINISHES, FURNISHINGS

DURABLE PAVERS FOR DEMANDING JOBS

Metropolitan Ceramics®

METRO® Pavers are 3/4 in. thick by 6 in. x 9 in., unglazed paver tile. METRO® Pavers are mold, bacteria and chemical resisting. They can take the punishment of forklift, cart and vehicle traffic.

Product Application

- · Industrial applications
- Outdoor applications
- · Food processing applications

Performance Data

- · 3/4 in. thick, extruded extremely durable
- · Low absorption/slip resisting

www.metroceramics.com 800.325.3945 | info@ironrock.com



INTERIOR FINISHES, FURNISHINGS

HIGH-PERFORMANCE NOISE CONTROL PANELS

Eckel Industries, Inc.

Eckel's Eckoustic® Functional Panels are designed to provide effective control of reverberation and background noise in virtually any space.

Product Application

- · Recreational, athletic, educational, religious, commercial, correctional & institutional facilities
- · New construction or renovation projects
- · Wide array of colors available

Performance Data

· Durable, resistant to graffiti and fire

www.eckelusa.com 617.491.3221



SNAP 147

INTERIOR FINISHES, FURNISHINGS

ENTRANCE FLOOR MATS & GRILLES

WR I GREEN

Kadee Industries, Inc.

Kadee Industries offers high-quality, low-price entrance mat solutions from aluminum rollout mats to stainless steel, aluminum or bronze entrance grating. **Product Application**

- · Univ. of Chicago Medical Center new hospital pavilion
- · Newseum, 555 Pennsylvania Ave., Washington, DC
- · Comcast Center, Philadelphia, PA

Performance Data

· Durable and distinctive entrance mat systems



SEAMLESS HIGH-DESIGN FLOOR SYSTEMS 55 Stonhard

Stontec URF is a seamless, chemical-, stain- and impact-resistant, urethane-based floor system with a decorative flake-infused design. A designer's choice.

Product Application

- · Stadiums and entertainment venues
- Restaurants, food courts and concessions
- Box suites, locker rooms and concourses

Performance Data

- · Seamless, easy to clean and high performing
- . Stands up to heavy traffic and continuous use

www.stonhard.com 800.257.7953



INTERIOR FINISHES, FURNISHINGS

SNAP 149

INTERIOR FINISHES, FURNISHINGS

SOLID-WOOD GRILLE

www.kadeeindustries.com

800.321.3827 | Jim Moore

Armstrong Ceiling and Wall Systems

Define spaces with solid-wood WoodWorks® Grille ceilings. Install in the ceiling, on the wall, or transition from the ceiling down to the wall.

Product Application

- · Petzl Headquarters, Salt Lake City, UT
- Methodist University Davis Library, Fayetteville, NC
- · Samsung, Ridgefield Park, NJ
- · Fossil, Richardson, TX

Performance Data

· Easy installation; excellent sound absorption with acoustical infill panel; custom blade size, finish, FSCcertified and curved options available

armstrong.com/grille

877.276.7876 | techline@armstrong.com



GREEN MechoSystems®

EcoVeil® is an eco-effective solar sunscreen fabric. It is Cradle-to-Cradle Certified Silver and can be reclaimed, recycled and remain in a perpetual loop of continuous use.

Product Application

- · Optimizes the use of daylight
- · Minimizes solar-heat gain to reduce reliance on electricity
- · Reduces unwanted glare to improve comfort and productivity

Performance Data

 PVC-free shadecloth consisting of thermoplastic olefin www.mechosystems.com

718.729.2020 | info@mechosystems.com



INTERIOR FINISHES, FURNISHINGS

SNAP 151

Booth: 921

INTERIOR FINISHES, FURNISHINGS

LUXURY STAINLESS-STEEL TOWEL WARMER

Amba Products

Sirio S-2142: Italian-designed stainless-steel towel warmer with a unique modern look offers a stylish and functional solution for bathrooms, hotels or even spas.

Product Application

- · Keeps towels warm, dry and mold/mildew free
- · Doubles as a space-heater for cold/moist bathrooms
- · Energy-saving solutions with included Digital Heat Controller

Performance Data

- BTUs: 586
- Average temp range: 133 167°F

ambaproducts.com

404.350.9738 | Fred Salati



SNAP 152

VANITY BRACKETS

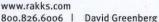
S I GREEN

Rangine Corporation/Rakks

Rakks ADA-compliant aluminum vanity brackets simplify and reduce the cost of installing sinks and provide a stable mounting surface for custombuilt enclosures.

Performance Data

- Supplied with wooden strips on the front faces to provide convenient mounting or removal of surface panels
- Available in standard sizes and made-to-order





INTERIOR FINISHES, FURNISHINGS

SNAP 153

INTERIOR FINISHES, FURNISHINGS

BLACKOUT BLINDS & LASER BLOCKING BLINDS

RT Technologies Inc.

RT Technologies offers blinds that block out ambient light and/or protect from lasers in use. Blinds are custom made to your measurements. Motorized blinds are also available.

Product Application

- Offices
- · Hospitals/doctors' offices
- Educational facilities

Performance Data

- · Easy to install
- Low maintenance
- · Easy to clean

www.rtlasersafety.com

770.332.0092 | contact@rtlasersafety.com



SNAP 154

ALUMINUM ENTRANCE MATS & GRATINGS GREEN I NEW

JL Industries | Activar Construction Products

A newly redesigned line of aluminum mats and gratings for building entrances.

Product Application

- · Office buildings and retail
- · Schools and hotels
- · Healthcare facilities

Performance Data

- · Protect flooring and improve indoor air quality
- . Remove dirt, contaminants and water at the door
- 75% recycled tread rail and frames
- · New premium carpet and color options

www.activarcpg.com/il-industries 800.554.6077

INTERIOR FINISHES, FURNISHINGS



Booth: 1017

DHI

SNAP 155

Floor-to-ceiling

CONDOS OFFICES HOTELS & HEALTHCARE

Bumper Bead System

Corner protectors have long been an afterthought, installed last minute leaving unfinished gaps and edges. Bumper Bead System has been developed as a floorto-ceiling flush corner protector that seamlessly blends into the interior decor while providing corner protection at an incredible cost savings. Spec Bumper Bead System, the only corner protector designed for impact protection and aesthetic consideration.

TRIM-TEX



SNAP 69





www.trim-tex.com 1-800-874-2333

DAYLIGHT BY DESIGN











The Dayliter Shade System from Indoor Sky delivers glare-free daylight to interior spaces. It is fully configurable with single or multiple operable fabric lightshelves and an integral roller shade. The system also provides privacy in multi-unit residential applications without blocking natural light. Available in all shade fabrics and with operating options including full motorization.

504 Highland Terrace Williamsport, PA 17701
www.indoor-sky.com | 570-651-5105



Remain flexible under tough conditions.

Duro-Last now offers one more option for long-lasting protection. Duro-Last® EV Membrane includes DuPont™ Elvaloy® KEE polymer – which remains flexible under demanding conditions. Paired with our proven PVC wear layer and our proprietary polyester scrim, it offers outstanding flexibility, durability and resistance to weather, UV, chemicals and oils.

Engineered to endure.



To learn more – visit duro-last.com or call **800-248-0280**





"Duro-Last," and the "World's Best Roof," are registered marks owned by Duro-Last, Inc.

DuPont™ and Elvaloy® are a trademark and registered trademark of the DuPont Company.

EV - UnderTough Conditions_SUS_11.3.14_v1

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PRODUCT SPOTLIGHTS Specialty Products Pgs. 81-90 Interior Finishes, Furnishings Pgs. 97-98 ROOFING, SIDING, THERMAL & MOISTURE PROTECTION.... PGS. 101-104 Doors, Windows...... Pgs. 109-117 Materials Pgs. Landscaping, Sitework......Pgs. 129 Electrical, Lighting Pgs. Equipment Pgs. 133 Mechanical Systems, HVAC, Plumbing Pgs.

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SINGLE-PLY ROOFING SYSTEM SS I GREEN

Duro-Last Roofing Inc.

Ideal for any flat or low-sloped application. Extremely durable, watertight, highly reflective, resistant to chemicals, fire, high winds. Virtually maintenance-free.

Product Application

- · DPI Specialty Foods, Henderson, CO
- · Tube Specialties, Troutville, OR

Performance Data

· Custom-fabricated flashings for watertight rooftop transitions; roofing membranes precision-fabricated or delivered as rolled goods

www.duro-last.com 800.248.0280 | John Deal



SNAP 157

RAISING WALL PERFORMANCE

SIGREEN

Advertising Section

SYNTHEON Inc.

SYNTHEON ACCEL-E® Steel Thermal Efficient Panel wall system combines framing & insulation, making the construction of energy-efficient buildings easier, faster.

Product Application

- . Birmingham Airport, Birmingham, AL
- · Cornell Elementary School, Pittsburgh, PA
- · Mt Lebanon High School, Pittsburgh, PA

Performance Data

- · Exceeds IECC requirements
- . NFPA 285 compliant

www.syntheoninc.com 888.922.2353



ROOFING, SIDING, THERMAL & MOISTURE PROTECTION PAVER LOCK-DOWN SYSTEM

WR

Wausau Tile Inc.

Paver Lok-Down™ Unit is specifically designed to resist wind uplift on paver roof decks. Consists of four components allowing for easy installation. Available in six standard color options.

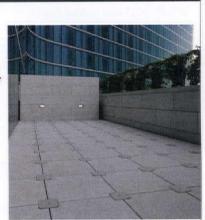
Product Application

- · Omni Hotel, Dallas, TX
- · Omni Hotel, Ft Worth, TX
- · Coronado Hotel, St Pete's Beach, FL

Performance Data

 Performance tested at the International Hurricane Research Center, FIU, Miami, FL

www.wausautile.com 800.388.8728 | Paving Department



SNAP 158

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

LATH & DRAINAGE IN ONE SYSTEM SINEW

Mortar Net Solutions

LathNet is the first factory-assembled drainage plane and metal lath system for adhered masonry veneer walls in residential and commercial buildings.

Performance Data

- · Continuous drainage plane allows fast, complete drainage and drying
- · Installs like regular lath, prevents mortar bridging



www.mortarnet.com 800.664.6638 | Art Fox

Booth: 3436

AIA Expo

SNAP 159

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL METAL ROOF & WALL SYSTEMS

WR I GREEN

Metal Sales Manufacturing Corporation

Durable, recyclable and versatile metal panels promote a building's energy efficiency and design aesthetics.

Product Application

- Commercial, institutional and residential buildings
- · PV integration and rainwater catchment intent
- · Retrofit existing structures

Performance Data

- . ENERGY STAR, LEED, CRRC and CA Title 24
- ASTM E-1592
- · Miami-Dade County approved

metalsales.us.com

800.406.7387 | inspired@metalsales.us.com



Booth: 3659

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

AIA Expo

SNAP 160

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ROOFTOP WALKWAY & SAFETY RAILING GREEN

Design Components, Inc.

www.rooftopwalkway.com

METALWALK™ Rooftop Walkway along with the optional safety handrail provides safe roof access for any commercial or industrial application.

Product Application

- · Protection for both personnel and roof systems
- Non-penetrating attachment for standing seam roofs

Performance Data

800.868.9910

- Meets or exceeds OSHA & IBC 2006 specifications
- Available in galvanized, Galvalume™ or painted finish



SNAP 161

NEW IN 2015 WITH AN R-VALUE OF 44+ WR I GREEN I NEW

A composite roof deck with the acoustic performance, environmental credits and abuse resistance you expect from all Tectum products together with an R-value of more than 44. It's Tectum E-N.

Performance Data

- . Spans up to 8 ft
- · NRC of up to .60
- · R-value over 44



www.tectum.com

888.977.9691 | info@tectum.com

Booth: 3045

AIA Expo

SNAP 162

All products in this section are accessible on sweets.com.

\$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge G = Product marketed as green | NEW = Released in the past 12 months

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

WATER-BASED 100% SILICONE AIR BARRIER

SS I GREEN I NEW

Dow Corning Corporation

Dow Corning® Silicone Air Barrier System is the only water-based silicone air barrier complemented by a fully compatible system.

Performance Data

- · Airtightness exceeds industry standards
- · Long-term UV resistance

BuildaBetterBarrier.com

989.496.8447



SNAP 163

ROOFTOP SCREENING SYSTEMS SS | GREEN

Envisor®, a product of CityScapes Inc.

Envisor® is the market-leading alternative to parapet walls for screening rooftop equipment. Patented unitattached installation requires no rooftop penetration. Now available with metal panels.

Product Application

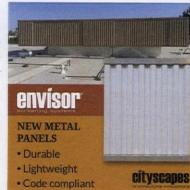
- . RTUs, HVACs, air chillers
- · Cooling towers, condensers, refrigeration units
- · Meets municipal code for rooftop screening

Performance Data

- · Resistant to rust and corrosion
- · Performs well in high- and low-temperature climates
- · Wind load 90+ mph

www.cityscapesinc.com

877.727.3367 | Brian O'Riordan



ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

Booth: 1951

AIA Expo

SNAP 164

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SPRAY POLYURETHANE FOAM

55

Bayer MaterialScience LLC

Ecobay SPF wall insulation enhances the energy efficiency of the building envelope by reducing air, moisture vapor and thermal intrusion.

Product Application

- · University of Texas Pan American, Edinburg, TX
- · Army Reserve Complex, Sloan, NV
- · Hillcrest Junior High School, Murray, UT

Performance Data

- · Controls thermal, air and moisture vapor intrusionall with one product
- · ABAA recognized, fluid-applied air barrier

www.polyurethanes.bayer.com

281.350.9000 | martha.vandamme@bayer.com



Booth: 959

AIA Expo

SNAP 165

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

EXPOSED FASTENING WALL SYSTEMS

MBCI offers 12 exposed fastener wall panels. These panels feature a ribbed design that adds texture to any building.

Product Application

- · Weber State University, Ogden, UT
- · Urban Lofts, Houston, TX

Performance Data

- · Nine of the exposed fastening panels may be used for roof and wall applications
- · 7.2 Panel, PBR, PBU and Stormproof® carry Florida approval

www.mbci.com

877.713.6224 | info@mbci.com



SNAP 166

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

COMPOSITE WALL PANELS

Petersen Aluminum Corporation

The PAC-3000 RS is a rainscreen system that eliminates the use of caulk, utilizing clean reveals for an architecturally pleasing system. The result is a free-floating panel installation.

Product Application

- Morris Hospital & Healthcare Center, Morris, IL
- PAC-3000 RS Composite Wall Panels
- · Finished in Reynobond Series 2 Bright Silver Metallic

Performance Data

- · Ideal for commercial, industrial and residential applications
- Available in a wide variety of colors and finishes

www.pac-clad.com

800.PACCLAD | Blake Batkoff



Booth: 1247

AIA Expo

SNAP 167

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PERFORATED IMAGING ON PARKING STRUCTURE

Dri-Design, Inc.

Dri-Design's Perforated Imaging technology can reproduce virtually any image by varying the size, location and density of the perforations.

Product Application

- · Franciscan Medical Building at St. Joseph Medical Center in Tacoma, WA
- · Clear anodized and painted aluminum

Performance Data

- · True dry-joint rainscreen system
- Exceeds performance specifications of AAMA 508-07 and Dade County

www.dri-design.com

616.355.2970 | sales@dri-design.com



Booth: 3259

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

AIA Expo

SNAP 168

UNIQUE SINGLE-SKIN METAL

WR | GREEN



CASCADE is CENTRIA's newest single-skin metal panel system, featuring a distinctive 1-1/2-in.-deep rib, with a soft curve and an angular sloped web for dramatic shadow relief. Offering unparalleled design flexibility, each of CASCADE's seven profiles works with each other and with CENTRIA's full line of Concept Series® panels. In addition, the panels can be installed both vertically and horizontally, and the common-lock joint makes it possible to combine the panels for unique, custom designs. CASCADE can be used with insulated or uninsulated field-assembled walls, offering you the flexibility to insulate the panels to the level of thermal protection that best meets a project's needs.

Product Application

Horizontal or vertical wall installation

Performance Data

- Panel modules—12 in. or 16 in. depending on profile selected
- Common lock joint design permits multiple profile integration
- · Galvanized steel, Galvalume® steel, aluminum or stainless steel-optional



CASCADE Horizontal Metal Panels CC -662

CENTRIAperformance.com 800.250.7897

Evolution



Thermal and Moisture Protection Roof and Wall Panels

Division 7 Thermal and Moisture Protection Specification Section 07411 - Manufactured Roof Panels

The Overly Evolution metal wall and roof system is without raised batten or standing seams and exposed fasteners. The system consists of a hidden drain channel, compression bar, cover cap and cladding sheets. The smooth, contemporary design appears monolithic when viewed from just a short distance. It's an 'Evolution' to all the standard metal wall and roof systems available throughout the history of the industry.

Applications

The Overly Evolution system can be installed on sloped roofs and vertical walls. Panels can be curved and/or tapered for barrel vaults and domes or spherical shapes. The system features hidden fasteners and an internal drainage component which removes any moisture that migrates into the system and skillfully designed joints which allow for expansion and contraction. The system is the exterior exposed component of a wall/roof composite assembly. Several composite assemblies are available ranging from thin to thick as determined by aesthetic preferences or as necessary to meet performance requirements such as thermal. structural and fire ratings.

Materials

- Aluminum Alloy 3003-H14, Standard Thickness 18 gauge (.040")-16 gauge (.050") available in painted K500 finishes, brushed and mill finishes
- Stainless Steel type 304 and type 316,
 24 gauge (.024") 20 gauge (.036") available
 in 2B, 2D, #4 and several custom directional
 and non-directional finishes
- Titanium Grade 1, gauges .018" .024" available in standard mill or matte finishes
- Zinc, gauge .028" .032" available in natural or pre-weathered finishes
- Recycled content varies upon material selected.
 100% recyclability of all metal components

System Design Data

- Width of Compression Cover: 2.75"
- Mininum/Maximum Spacing between Compression Covers: 12"–48"
- · Maximum Length of Panels: 40'
- Compression Extrusion Thickness: .056"
- Channel Extrusion Thickness: .056"
- Test data in accordance with ASTM E 283, ASTM E 330, ASTM E 331 and UL 580 (Class 90 available upon request)



It's more than metal...it's personal.



MANUFACTURING COMPANY

P.O. Box 70

Greensburg, PA 15601-0070 USA

Phone: (724) 834-7300 Fax: (724) 830-2877

E-mail: overly@overly.com Website: www.overly.com

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ROOF VENT USES WIND, A RENEWABLE ENERGY SOURCE

Active Ventilation Products, Inc.

Aura Ventilator exhausts air like a turbine, with no moving parts, using wind, a renewable energy source. **Product Application**

- · Draws out air from the attic without moving parts
- · Reduces hot attic temperatures in the summer and removes moisture in the winter

Performance Data

- · Square base for easy roof installation
- · Optional roof curves & curb mount flanges avail.
- . Tested to the standards of Texas Insurance at wind pressure equiv. to 200 mph wind

www.roofvents.com 800.766.3836 | sales@roofvents.com



SOLAR ROOFING

\$\$\$ | GREEN

CertainTeed Roofing

Apollo 2 integrated photovoltaic (PV) panels offer two models of lightweight roof-integrated modulesshingle and tile-utilizing monocrystalline silicon technology.

Product Application

· Aesthetically pleasing integration with new and existing roofs, no need for rack mount or structural reinforcement

Performance Data

 14 high-efficiency solar cells per module provide a recently enhanced power rating of 60 watts per module

www.certainteed.com/products/roofing/solar 800.233.8990



SNAP 170

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

THE ULTIMATE WATER TABLE WATERPROOFING SYSTEM

Epro Services, Inc., Wichita, KS 67211

Product Application

- · Complete field-installed composite
- · Cost effective, timely application
- · Adaptable project design
- · Flexible for unique construction conditions
- · High productivity

Performance Data

- · Seamless, self-sealing system
- · Excellent strength and durability
- · Exceptional chemical resistance
- · Fully bonded to slab
- · Redundant protection

www.eproserv.com

800.882.1896 | info@eproserv.com



ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

RAINSCREEN SYSTEMS/WALL PANEL SYSTEMS

WR I GREEN

Overly Manufacturing Company

Systems fabricated in a variety of metal types, thicknesses and finishes.

- · Computer model creation allows variations in system depth and profiles to customize the project
- · Designed and engineered to meet or exceed your performance criteria



www.overly.com 800.979.7300 | Jon Reese

SNAP 172

Jallew's



Protection and Aesthetic appeal all in one product

Ballew's Aluminum Products offers many colors and styles of overhead canopies that are fully engineered. On a storefront or loading dock, Ballew's has a cover for any application!

4 locations: Greer, SC - Southaven, MS - Oklahoma, OK - Manheim, PA

Phone: 800-231-6666 . Website: www.ballews.com SNAP 53

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

DECORATIVE GLASS RAINSCREEN SYSTEMS

NEW I WR

Bendheim Wall Systems Inc.

First-of-their-kind glass rainscreens are dependable, daylight- and bird-friendly, completely transforming the look of a new or existing building on time and on budget.

- · Rigorously tested in accordance with ASTM & AAMA requirements for water penetration, pressure equalization, air leakage and structural performance
- Non-combustible

www.BendheimRainscreens.com 800.221.7379 | rainscreens@bendheim.com



ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL PRECAST CONCRETE CLADDING PANELS

GREEN I WR

Easi-Set Worldwide

Ultra Hi-Performance Slenderwall is a 28 lb/sf awardwinning architectural precast concrete and steel-stud exterior panel system wind-load tested to 226 mph.

Product Application

- · BioInnovation Center, New Orleans, LA
- · Johns Hopkins Hospital, Baltimore, MD
- Westin Luxury Hotel, Virginia Beach, VA · US Army Legal Headquarters, Ft Belvoir, VA

Performance Data

· Factory-installed continuous closed-cell foam insulation - ASTM C-1363 hot box tested and compliant with all IECC/ASHRAE energy conservation codes

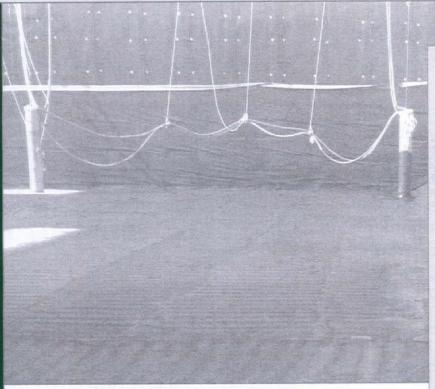
www.SlenderWall.com

800.547.4045 | info@easiset.com



Fewer on-site trades - Faster installation Lower structural cost - Class "A" finishes

Epro's Fully Integrated Field Installed Composite Waterproofing System Provides the Most Protection, Fastest Installation, Lowest Cost and Best Warranty in the Industry Today!





- System III CWB Concrete / CMU Wall Waterproofing
- System III RDB Roof / Deck Waterproofing
- System III MBB Waterproofing / Gas Barrier
- System III LWB Blindside Waterproofing / Gas Barrier

Excellent Strength and Chemical Resistance - the result of the unique field installed composite system design utilizing HDPE.

Seamless - The highly flexible spray or fluid applied membrane forms a monolithic barrier.

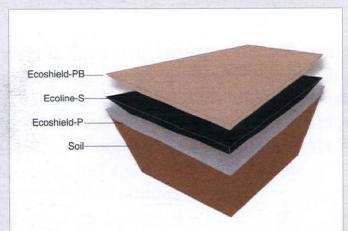
Exceptional Adhesion - The sprayed or fluid applied membrane bonds tenaciously to almost any substrate in almost any condition including green concrete or a damp substrate.

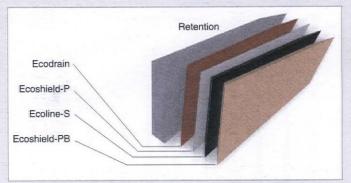
Self Sealing - The bentonite layers seal at any penetration of the system.

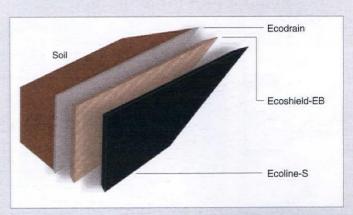
Redundant Protection - Multiple waterproofing protection courses and drainage plane.

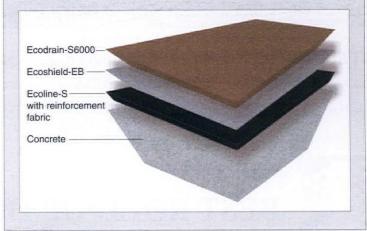


800-882-1896 • www.eproserv.com









TUBULAR MOTOR OPERATOR

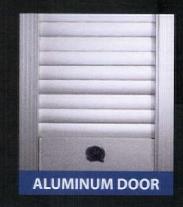
Tubular Motor Operators can be directly mounted into the barrel of roll-up doors, eliminating external clearance needed for customary commercial electric operators. Tubular motors enhance the appearance of electric motor operated doors by concealing the motors. Possible usage includes, but not limited to, counters, windows, storefronts, hallways, and any application with limited head-clearance.

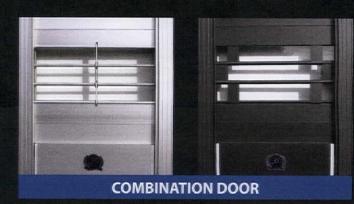


ALUMINUM LEXAN DOOR









BEST ROLL-UP DOOR has been the leading manufacturer of roll-up doors since 1978. In order to provide BEST service, BEST quality and BEST prices for our clients, we are committed to providing uncompromised, professional and quality doors in the BEST turn-around time.





BEST ROLL-UP DOOR, INC. 800-400-2565

For more information, visit

www.bestrollup.com



Daylighting systems produced with Azon structural thermal barrier technologies—the MLP™ or Dual Cavity-for aluminum windows and high performance glazing components for insulating glass, will yield a fenestration system capable of upholding the highest efficiency and sustainability standards.

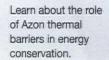
- Polyurethane polymer with superior insulating properties for the best balance of energy efficiency and performance
- NEW: MLP™(mechanical lock profile) and dual cavity designs for fenestration products used in the most demanding climates and conditions
- High strength for larger spans—industry's strongest thermal barrier for aluminum storefront, curtain wall and windows
- AZO/Tec® technical services with expertise in window design



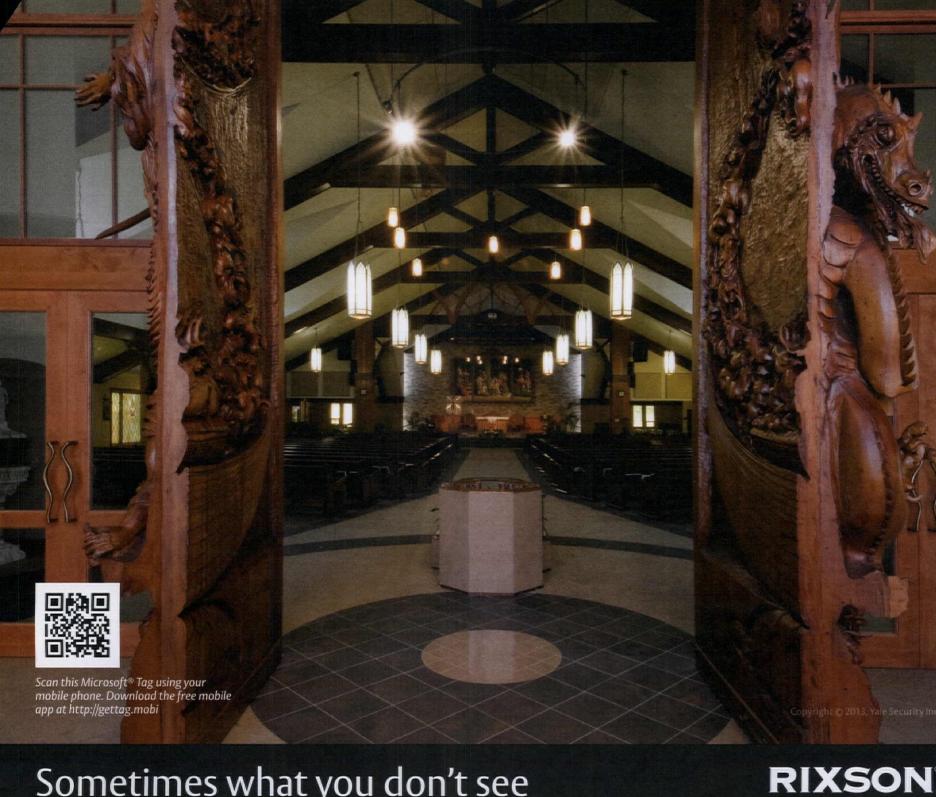
Extreme cold temperatures of -100°C (-148°F) will not transfer through an aluminum frame with a modern pour and debridge thermal barrier (and neither will high temperatures in very hot environments)











Sometimes what you don't see is just as important as what you do.

An architect's vision often leads to majestic and imaginative new designs. That's why they count on RIXSON, the company that makes it possible for their buildings to be adorned with highly impressive openings.

From the most modest to the grandest of doors, RIXSON's concealed closers and pivots ensure effortless operation and superior performance, without sacrificing lasting beauty.



Left to Right: Stops and Holders

For more information, scan the QR code above or visit www.rixson.com

Electromagnetic Door Holder/Release, Offset Pivot, Floor Closer, Checkmate®

> ASSA ABLOY, the global leade in door opening solutions

ASSA ABLOY

PRODUCT SPOTLIGHTS Specialty Products..

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Interior Finishes, Furnishings	Pgs.	97-98	
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104	
DOORS, WINDOWS	PGS.	109-117	
Materials			
andscaning Sitework			

Electrical, Lighting...... Pgs.

Equipment Pgs.

Mechanical Systems, HVAC, Plumbing Pgs. 135

DOORS, WINDOWS

131

133

WOOD ACOUSTIC DOORS

Overly Door Company

Wood acoustic doors are lead-, asbestos- and formaldehyde-free and are now available with FSC Chain of Custody.

Product Application

- · Brentwood Baptish Church, Brentwood, TN
- . US Department of State, Washington, DC
- Pennsylvania State University, State College, PA

Performance Data

- · FSC Chain of Custody
- . 3/4-hr UL fire ratings; STC 41 thru 49

www.overly.com 800.979.7300



DOORS, WINDOWS

SNAP 175

DOORS, WINDOWS

INVISIBLE HINGE

SOSS Door Hardware

Stylish, durable and invisible. The original concealed hinge, the SOSS® Invisible Hinge, is the perfect addition to a wide variety of elegant environments.

Product Application

 The installed hinge is firmly anchored in a deep, full mortise, assisting screws in supporting the door, assuring a stronger, more rigid installation

Performance Data

- · High-strength plated steel
- · Heavy-duty zinc alloy castings
- Stainless and alloy steel

www.soss.com 800.922.6957



SNAP 176

VINYL WINDOWS & DOORS

WR

Simonton Windows

Custom-built, energy-efficient windows and doors for light commercial or residential projects.

Product Application

- · Elizabeth Seton Pediatric Center, Yonkers, NY
- Kendal on the Hudson, Sleepy Hollow, NY
- The Raritan Inn, Califon, NJ

Performance Data

- ENERGY STAR Partner
- · AAMA Gold Label certification
- NFRC

simonton.com

800.746.6686 | archdetails@simonton.com



SNAP 177

DOORS, WINDOWS

SKYLIGHT SHADINGS SS | GREEN

Crown Shade Company

Flat and angled skylights can now be automatically covered with the push of a button. Crown's single and twin motor tensioning shade systems cover the largest openings with high-performance fabrics.

Product Application

 Commercial buildings; residential buildings; angled windows

Performance Data

- · Fabrics contribute toward GREENGUARD/LEED certification
- Fully customizable for each application

www.crownshadeco.com 800.445.5557 | Jared Grodnitzky



SNAP 178

DOOR HINGE SAFETY GUARDS

\$

Fingersafe USA

Full-length door protection that blends with existing hardware and folds flat against the frame. Designed for commercial use to avoid amputation, damaged fingers and costly insurance claims.

Product Application

· Schools, heath care, military CDC Performance Data

- · 4-hour fire door rating UL listed
- Retrofitted
- Unimpeded operation · Made in the USA

www.FingersafeUSA.com



SNAP 179

DOORS, WINDOWS

DOORS, WINDOWS

CUSTOM DOOR COLORS

Clopay Building Products Co.

Clopay Color Blast™ offers commercial sectional overhead doors in 2,000+ Sherwin-Williams® color options to complement your buildings.

Product Application

- · Durable factory satin finish
- 5-year finish warranty
- · Use the 4-digit Sherwin-Williams color codes on any commercial door

Performance Data

- Solar reflective Polane® paint technology provides cooler surface temperatures
- Meets American AMA 2604 standards

clopaydoor.com/commercial 800.225.6729 | Rory Phillips



SNAP 180

PERFORMANCE GLASS

Guardian SunGuard

No other glass delivers this much light with so little heat. SunGuard SNX 51/23—A glass industry first.

Product Application

- · Triple silver technology
- · Commercial low-E glass insulated unit
- · Combines light, appearance and solar control
- · Low reflectivity and neutral blue color

Performance Data

- Visible light above 50% (highest in its class)
- Solar heat gain coefficient below .25
- · Meets stringent energy codes

SunGuardGlass.com 866.GuardSG



Booth: 2545 AIA Expo

SNAP 181

All products in this section are accessible on sweets.com.

\$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge G = Product marketed as green | NEW = Released in the past 12 months

CW-RATED WINDOWS

SSS I NEW

Pella Corporation

Pella® Architect Series® line of wood windows now offers CW-rated performance. Triple-pane options also available for select Architect Series products.

Product Application

- · Projects requiring larger sizes, higher wind-loading requirements or limits on deflection
- · Products include fixed, casement, awning, double- and single-hung windows

Performance Data

- · Higher overall performance grade
- · Higher levels of resistance to wind pressures measured by design pressure

www.pellacommercial.com

888.628.8433 | commercial@pella.com



SNAP 182

ONE-PIECE HYDRAULIC DESIGNER DOORS

Schweiss Doors, Moving Walls

Schweiss Doors manufactures custom designer doors like this one-piece hydraulic door for Under Armour in Maryland.

Product Application

- . Moving doors and walls
- · You think it, they build it
- · Custom-designed storefronts and more

Performance Data

- · Faster, safer operation
- · Zero lost headroom
- · Superior design that keeps working

www.schweissdoors.com 507.426.8273 | schweiss@schweissdoors.com



DOORS, WINDOWS

SNAP 183

DOORS, WINDOWS

DOORS, WINDOWS

DOORS, WINDOWS

DRYWALL ACCESS PANELS FOR WALLS & CEILINGS

FF Systems, Inc.

Virtually invisible access doors for concealed services.

Product Application

- · Double doors for oversized openings
- · Access doors for tiling
- · Commercial and residential

Performance Data

- Custom solutions and sizes short lead times
- · Aesthetically pleasing and functional
- · Quick, easy and flush installation
- Superior engineering and innovative design

www.ffsystemsinc.com 888.978.1808 | info@ffsystemsinc.com



SNAP 184

INVISIBLE HINGES

SS I NEW

Rocyork Architectural Opening Solutions

Make your door disappear with the new Rocyork concealed door hinge from Ezyjamb. With 6-way adjustment and a maintenance-free mechanism, Rocyork hinges offer the best of European design/production.

Product Application

- · Condominiums, multifamily
- · Offices, residential, health care

Performance Data

- · Fire rated
- Available in a variety of weight capacities
- · Allows uninterrupted clean lines around internal doors

www.rocvork.com 800.675.8023



SNAP 185

DOORS, WINDOWS

SKYLIGHTS THAT SAVE ENERGY & CONTROL SUNLIGHT GREEN

Major Industries, Inc.

Guardian 275® translucent panel skylights from Major Industries are lightweight, provide built-in glare control, eliminate hot-spots and can be insulated for enhanced thermal performance.

Product Application

- · Custom-design options including colored insulation, curved systems and mixed glazed skylights
- · Perfect for unique canopy designs

Performance Data

- Center of panel U-factors as low as .08
- NFRC listed

www.majorskylights.com 888.759.2678 | info@majorskylights.com



SNAP 186

DOORS, WINDOWS

ELITE SECURITY SYSTEM

SSIWR

Horton Automatics

The Visdom Elite detects unauthorized entry violations such as piggybacking and tailgating. The system goes beyond existing vision-based, weight-based, infrared and ultrasonic systems.

Performance Data

- Highly immune to shadows and reflections
- Versatile X or + configuration
- Continuous flow from both directions · Easily retrofits onto existing Horton doors
- · Real-time clock

hortondoors.com 361.888.5591 | Jed Foglesong



SNAP 187

DOORS, WINDOWS

DOORS, WINDOWS

HIGH-PERFORMANCE ALL-GLASS ENTRANCE SYSTEM

NEW

CRL-U.S. Aluminum

A first-of-its-kind entrance system, the new Entice™ Series exceeds demanding building code and energy conservation requirements while maintaining elegant all-glass aesthetics.

Product Application

- Accommodates 1-in. insulating glass
- · Thermally broken cladding

Performance Data

- AAMA 101 Performance Class LC-PG25-SHD
- Meets ASHRAE 90.1 Air Infiltration and Thermal Performance Requirements
- . U-factors as low as 0.33

www.crl-arch.com



AIA Expo

ADJUSTABLE CONCEALED HINGES 555

SIMONSWERK North America, Inc.

The TECTUS 3-way adjustable concealed hinge series for doors offers designers and architects an entire range of hinges for different architectural openings.

Product Application

- Hospitality Armani Hotel, Burj Khalifa, Dubai, U.A.E.
- Residential 2012 Olympic Village, London, U.K.
- · Retail Apple Retail Stores, global

Performance Data

- · Maintenance-free slide bearings for doors up to 300 kg/660 lb
- · Designed for high-frequency use (not limited to lowfrequency applications)

www.simonswerk-usa.com

262.472.9500 | info@simonswerk.com



Record Products 2014 WINNER



Hydraulic Gate Closer and Hinge

Learn why SureClose is your best option for self-closing hi-traffic or larger gates!



- Powerful hydraulic closer & hinge in one small package!
- Dual bearing glide system for consistent superior performance
- High strength aluminum tested to 500,000 cycles
- · ADA compliant
- · Visibly small footprint

- Multiple adjust options closing speed and final snap action
- · Adjusts vertically and horizontally
- Mounting options include fastened and welded
- · Highly tamper resistant
- Maintenance free no messy grease









DOORS, WINDOWS

REVOLUTIONARY REVOLVING DOOR

S | GREEN | NEW

Boon Edam Inc.

BoonAssist TQ is the first manual revolving door in the world to combine three features into one premium package.

Product Application

- . Class A office buildings
- · Hotels and restaurants
- · Specialty retail

Performance Data

- · Power Assist provides push & go rotation; positioning for intuitive entry; speed control for predictable, steady operation
- · Metal-framed construction or all-glass styles www.boonedam.us

800.334.5552 | sales@boonedam.us



Booth: 5758

HD Expo

SNAP 190

SYMMETRICAL & SIMULTANEOUS SLIDING

Hawa Americas Inc.

The HAWA-Symmetric 8o/Z connects two sliding doors that can be opened and closed symmetrically, features high-quality trolleys that enable easy sliding and a robust maintenance-free design.

Product Application

- · Commercial, hospitality, residential
- · Accommodates doors up to 176 lb
- · Hardware is available for wood and glass applications

Performance Data

- · Fiberglass reinforced toothed helt
- · Patented two-way suspension & no visible floor guide

www.hawa.com

214.760.9054 | payne.chariessa@hawa.com



SNAP 101

DOORS, WINDOWS

DOORS, WINDOWS

DOORS, WINDOWS

IMPACT-RESISTANT STOREFRONT

55

Tubelite Inc.

Hurricane impact resistant storefront system for 1-5/16" insulated laminated glass, and medium stile doors for 1-1/16" insulated laminated. Meets the requirements of large and small missile testing.

Product Application

- 2-1/2" x 5" profile
- · Non thermal or thermally broken storefront
- · Anodized and painted finishes

Performance Data

- Meets Florida Building Code TAS 201, 202 and 203 & ASTM E 1886/1996
- · Wind Zone 4 impact/cyclic criteria

www.tubeliteinc.com

800.866.2227



Booth: 2761

AIA Expo

SNAP 192

DO YOU DREAM IN DAYLIGHT? SSS | GREEN

Bayer MaterialScience

Makrolon polycarbonate sheets provide clear advantages over glass in architectural glazing, such as break resistance and design freedom.

Product Application

- · California Academy of Sciences, San Francisco, CA
- · Sparks High School, Sparks, NV
- · Canada Place, Vancouver, Canada

Performance Data

- · Abrasion resistance and weatherability
- 15-year warranty for Makrolon 15

www.sheffieldplastics.com 877.413.7957 | Cindy Race



Booth: 959

AIA Expo

SNAP 193

DOORS, WINDOWS

WINDOW WALL

\$\$ | GREEN | NEW

Kawneer Company, Inc.

MetroView™ FG 501T Window Wall offers the look of a curtain wall with a slab-to-slab framing system.

Product Application

- · Mid-rise construction
- · Multifamily and commercial applications **Performance Data**

- IsoLock[™] pour and debridge thermal break design improves U-factor and condensation resistance
- · Accepts insulating glass units for added occupant comfort

www.kawneer.com

770.840.6448 | Glenda Jackson



EXTERIOR VIEW INTERIOR VIEW

Booth: 2237

AIA Expo

SNAP 194

DOORS, WINDOWS

THERMAL WINDOWS

WR | GREEN | NEW

Kawneer and Traco Windows

Kawneer's OptiQ™ Ultra Thermal Window - AA™5450 Series Window reaches a new level in performance due to unique features integrated into its design.

Product Application

- · Single/double-hung, horizontal sliding or fixed window configurations
- · Ideal for hospitals/schools, new or retrofit
- · Perfect for buildings seeking LEED® certification

Performance Data

- · Meets Architectural Window (AW) performance class
- · Fixed: AW-PG50-FW; hung: AW-PG50-H; sliding: AW-PG50-HS

www.kawneer.com

770.840.6448 | Glenda Jackson



Booth: 2237

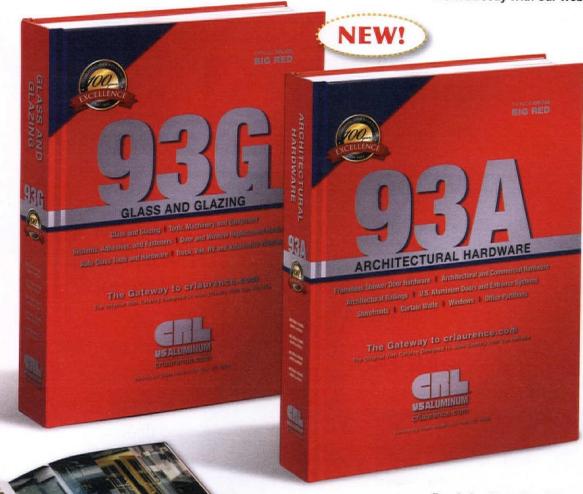
AIA Expo



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The Most Comprehensive Source of Products and Services for Glazing, Screen, Architectural, Railing, Construction, Industrial, and Automotive Businesses.

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CRL93A

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U.S. Aluminum Doors and Entrance Systems

Storefronts

Curtain Walls

Windows

Office Partitions

CRL93G

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Glass and Glazing Tools, Machinery, and Equipment

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Door and Window Replacement Hardware

Auto Glass Tools and Hardware

Truck, Van, RV, and Automotive Windows

See Us at the AIA EXPO in Atlanta Booth #1959 and Visit the CRL-U.S. Aluminum Learning Lounge for Continuing Education Courses All Three Days.



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WON-DOOR FIREGUARD™



FireGuard Cross Corridor in Lieu of Swing Type Doors for Cost and Space Savings

- Wide open corridors
- No exposed hardware
- Low maintenance
- Integrated pocket cover door
- "Green" selfsupporting track system
- Meets all egress requirements
- Up to 60 percent pocket depth reduction







WWW.WONDOOR.COM SALES@WONDOOR.COM

DOORS, WINDOWS

MULTI-LAMINATE IN BUTT-GLAZED ASSEMBLIES

SAFTI FIRST Fire Rated Glazing Solutions

60 to 120 min. fire-resistive SuperLite III-XL meets ASTM E-119/UL263 w/ hose stream and CPSC Cat. II impact safety. UL listed. Proudly USA-made. Can be used w/ GPX Architectural Series Framing.

Product Application

- · Butt-glazed assemblies with a max. single panel size of 6,975 sq in.
- · Largest fixed-frame glass panel in the industry at 5,978 sq in.

Performance Data

- ASTM E-119/UL 263 with hose stream
- . CPSC Cat. II impact safety

www.safti.com

888.653.3333 | info@safti.com



SNAP 196

SANDSTONE-TEXTURED THROUGH-COLORS NOW AVAILABLE

\$\$ | GREEN | NEW

Special-Lite, Inc.

The SL-20 FRP/Aluminum Hybrid Door is strong, secure, yet aesthetically pleasing in appearance and available in 9 new standard through-colors or painted any custom color.

Product Application

- · Education buildings
- · Arenas/recreation facilities
- Public buildings

Performance Data

- · Approved for use in the HVHZ
- · Excellent thermal properties

www.special-lite.com 800.821.6531 | info@special-lite.com



DOORS, WINDOWS

SNAP 197

DOORS, WINDOWS

DOORS, WINDOWS

OVERHEAD STOPS & HOLDERS

6ADJ Checkmate overhead stops and holders are used to extend the life of the door, frame and any door closing devices.

Product Application

- · Schools/universities
- Healthcare
- · Main entrance doors

Performance Data

- · Low profile
- · Interior or exterior doors
- · Degree of opening is fully adjustable

www.Rixson.com

704.233.1586 | Lana Kirkpatrick



SNAP 198

HEAVY-DUTY PIVOT SET

Rixson's L117 pivot is the ideal way to hang a heavy door that does not need to be self closing.

Product Application

- · Exterior or interior doors
- · Lead-lined, heavy or high-traffic doors

Performance Data

- · Weights up to 1,750 lb
- · Available for fire door assemblies
- Doors will swing 180°, trim permitting





SNAP 199

DOORS, WINDOWS

CAST IRON DOOR CLOSER

555

Norton Door Controls

Ideal for high-use openings, the Norton 9500 Series Cast Iron door closer offers durability, flexibility and strength.

Product Application

- · Forged standard and heavy-duty arms
- · Adjustable spring sizes 1-6
- · Closer mounting installation bracket standard **Performance Data**

- Exceeds 20 million cycles (witnessed & verified by UL) · 25-year limited warranty

www.nortondoorcontrols.com 704.233.1586 | Lana Kirkpatrick



SNAP 200

DOORS, WINDOWS

HEAVY-DUTY SECTIONAL DOOR

Entrematic

Constructed using 2-in. foamed-in-place, CFC-free polyurethane insulation, Amarr's top-of-the-line high R-value door (Model 2700) is energy efficient and perfect for heavy industrial applications.

Performance Data

- 14-gauge galvanized steel hinges
- · Energy-efficient, strong monolithic panel
- · Section joint chemically bonded with adhesive sealant
- · EPDM rubber weather seal on joint

www.amarr.com 800.503.DOOR



SNAP 201

DOORS, WINDOWS

DOORS, WINDOWS

CLEAR SOLUTION FOR ALL 45-MIN. APPLICATIONS NEW IS

SAFTI FIRST Fire Rated Glazing Solutions

There's nearly clear—then there's clear SuperLite II-XL 45 offers the best clear solution for all 45-minute applications at a better price than ceramics. Proudly USA-made.

Product Application

- · Doors
- · Windows, sidelites, transoms **Performance Data**

• ASTM E-119 with hose stream

- · CPSC Cat. II safety • 40 STC
- · UL/WHI listed in large sizes

www.safti.com/best45 888.653.3333



SNAP 202

STRUCTURAL THERMAL BARRIER TECHNOLOGY SAVES ENERGY GREEN

Structural thermal barrier technologies for energy efficiency and high strength for aluminum fenestration products used in the building envelope.

Product Application

- · Storefront and curtain wall applications
- Commercial aluminum, windows, doors and skylights
- · Thermal barriers for commercial aluminum framing

Performance Data

- · Intelligent technologies reduce overall U-factor
- · Higher CRF (condensation resistance factor)

www.azonintl.com 800.788.5942



All products in this section are accessible on sweets.com.

\$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge

G = Product marketed as green | NEW = Released in the past 12 months

FLOOD PROTECTION WITHOUT BEING THERE

Automatically Deploys When Needed

Introducing two NEW innovative products to our flood protection line

AutoSeal Rolling Door



AutoRising Flood Gate





Both products are watertight & deploy at pre-determined water levels

Contact the experts at Walz & Krenzer for all your flood barrier, watertight and blast closure needs.



Walz & Krenzer, Inc.

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EXIT DEVICES

SS I NEW

DORMA

DORMA 9000 Exit Device w/ Motorized Latch Retraction (MLR) offers quiet reliability and security of access control. 9000 MLR is able to hold in push bar electrically during non-secure business hours. **Product Application**

- Exit device can be used with card readers, key switches or other remote access devices
- Can be used with DORMA ED900 ADA operator for complete ADA security solution

Performance Data

- Less than 1 AMP draw
- · Motor rated @ 1A, 24VDC

www.dorma.com

800.523.8483 | David Karley



DHI

DOORS, WINDOWS

DOORS, WINDOWS

IN-FLOOR ELECTROMECHANICAL SWING DOOR OPERATOR

Tormax Technologies, Inc.

Fully concealed in-floor operator was designed for rigorous conditions of commercial use for doors weighing up to 1,000 lb.

Product Application

· Buildings that meet the Historic Preservation Society guidelines

Performance Data

- · Solid glass, wood, metal, fiberglass and/or arched doors
- · Elevated design for convenience, comfort, safety
- · Eco-friendly, 110-VAC electromechanical operator

www.tormaxusa.com 888.685.3707



SNAP 205

DOORS, WINDOWS

INSULATED EXTERIOR ACCESS DOOR

Karp Associates

Karp engineered its MX insulated Exterior Access Door to withstand years of exposure to severe outdoor elements.

Product Application

- 2-1/2-in.-thick insulation
- · Factory-applied caulking to greatly reduce water penetration
- · Lift & turn compression latch for tight seal



SNAP 206

Karpinc.com 631.768.8300

DOORS, WINDOWS

LIBRARY LADDERS & SLIDING DOOR HARDWARE

Specialty Doors

World's largest selection of sliding door hardware. **Product Application**

- Wine cellars
- · Restaurants/bars
- Libraries Closets
- Kitchens

Performance Data

- · German precision
- Telescoping top
- · Curves available

www.specialtydoors.com 866.815.8151 | Tom Gross



SNAP 207

All products in this section are accessible on sweets.com.

\$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge G = Product marketed as green | NEW = Released in the past 12 months



TECTUS® the adjustable concealed door hinge.

The hinge that opens doors and possibilities.



SIMONSWERK North America, Inc. Whitewater, WI 53190

www.simonswerk-usa.com

SNAP 268

262-472-9500

CLEAN LINES! ... The Flush Finish Door Jamb System

Trimless doors... Make a statement, clean lines, flush finish... Give your project a clean cut edge!



- · HOMES
- CONDOMINIUMS
- PENTHOUSES
- SHOWROOMS
- HEALTHCARE

EZY-Jamb is a split type Jamb manufactured from cold rolled steel to produce a strong and secure assembly. EZY-Jamb comes with perforated sides for flush finishing which produces a contemporary flush finish door jamb with clean lines and inconspicuous detail. The unique design of EZY-Jamb combines visual appeal, strength and versatility.





ROCYORK

Invisible Hinge

Make your door hinges disappear with the all new Rocyork concealed door hinge from Ezy-Jamb!

Featuring:

- 6 way adjustment
- Powder coated finish
- Up to 175lbs per pair
- European design.

MANUFACTURED BY:

STUDCO BUILDING SYSTEMS US, LLC

Email: sales@ezyjamb.com

PHONE: 800.675.8023





Upgrade your expectations.



Discover the potential of your commercial business when you partner with Clopay*. You'll get the flexibility to offer hundreds of distinctive a responsive team of Clopay commercial door experts read. Discover the potential of your commercial business when you partner with Clopay*. You'll get the flexibility to offer hundreds of distinctive assist it's easy to deliver nowerful solutions that help you stand out. assist, it's easy to deliver powerful solutions that help you stand out.

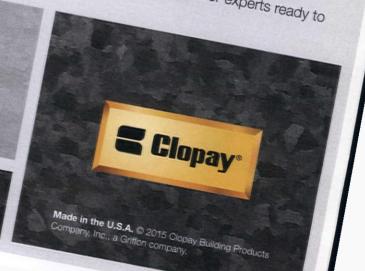
SNAP 58



Snow Removal Facility:

Custom commercial track engineered for maximum space and extreme reliability

To become an authorized Clopay commercial dealer, call **800.526.4301** or visit **clopaycommercial.com**.







Schluter®-DITRA-HEAT

Electric floor warming system with integrated uncoupling

Floor warming systems have become very popular. Heating tiled floors increases the need for uncoupling to prevent cracked tiles and grout. Use DITRA-HEAT to get both - warm floors and uncoupling - in a single layer.



- No self-levelers required to encapsulate heating cables (no need to wait for curing)
- Place the heating cables exactly where they are needed, without clips or fasteners
- Combines the flexibility of loose cable with the ease of installation of a mat system
- 120 V and 240 V options
- Programmable and non-programmable thermostats available



PRODUCT SPOTLIGHTS

Specialty Products	Pgs.	81-90
Interior Finishes, Furnishings	Pgs.	97-98
Roofing, Siding, Thermal & Moisture Protection	Pgs.	101-104
Doors, Windows	Pgs.	109-117
MATERIALS	PGS.	121-122
Landscaping, Sitework	Pgs.	129
Electrical, Lighting	Pgs.	131
Equipment	Pgs.	133
Mechanical Systems, HVAC, Plumbing	Pgs.	135

BURNISHED MASONRY: ELEGANT & SUSTAINABLE

SSS I GREEN

Grand Blanc Cement Products

Manufactured to high quality and value. Designed to exceed LEED requirements. Many colors and shapes.

Product Application

- · Cleveland Hearing and Speech, Cleveland, OH
- · Ball State University Wellness Center, Muncie, IN
- · Genesys Regional Health Park, Grand Blanc, MI **Performance Data**
- · Resistant to stains and graffiti
- · Decreases heating and cooling costs

www.grandblanccement.com 800.875.7500 | David Hicks, Midwest Sales



SNAP 208

MATERIALS

MATERIALS

MATERIALS

ENHANCED PAINT W/ FORMALDEHYDE-REDUCING TECHNOLOGY WR I GREEN

The Sherwin-Williams Company

Enhanced Harmony reduces interior odors and helps promote better indoor air quality.

Product Application

- Zero VOC
- · Delivers great hide withstanding frequent washings **Performance Data**
- · Odor-eliminating technology reduces ambient odors of
- organic origin · Formaldehyde-reducing technology, reduces VOCs
- from possible sources like insulation, carpet, fabrics

www.swspecs.com

800.474.3794 | specifications@sherwin.com



SNAP 200

ARCHITECTURAL CONCRETE MASONRY

E. Dillon & Company

Complete and high-quality line of architectural masonry. The Reflective Series is your unit masonry alternative to granite or marble.

Product Application

- · Schools, universities, stadiums, civic centers
- · Hospitals, commercial, government, office buildings
- · High-end residential, interior or exterior use

Performance Data

- · May contribute points toward LEED certification
- · 24 standard colors

www.edillon.com 800.234.8970



SNAP 210

MATERIALS

MATERIALS

CURTAIN WALL INSULATION

Thermafiber® Inc. (an Owens Corning company)

FireSpan® 40 and 90: Thermafiber FireSpan products are designed to provide life-saving fire protection in curtain wall and perimeter fire containment systems.

Performance Data

- Fire resistant to temperatures above 2,000°F (1,093°C)
- Non-combustible
- · Controls noise and sound



thermafiber.com | ocbuildingspec.com 888.834.2371

Booth: 3229

AIA Expo

METAL COMPOSITE MATERIAL (MCM) WR | GREEN

Citadel Architectural Products, Inc.

Envelope 2000 is a metal composite material (MCM) with several different attachment options.

Product Application

- · Sandler Center for the Performing Arts. Virginia Beach, VA
- · Consol Energy Headquarters, Canonsburg, PA
- · The Columbian Newspaper, Vancouver, WA

Performance Data

- · Impact, water and fire resistant
- · Code tested and approved

www.citadelap.com 800.446.8828 | Sean Walker



SNAP 212

MATERIALS

MATERIALS

SNAP 211

EXPRESS YOURSELF

NEW | GREEN | \$\$\$

Pittsburgh Corning -**Expressions Collection Glass Block**

Add an artistic touch to your décor. Customize glass blocks with colors or images. Made to order to fit your design requirements.

Product Application

- Interior or exterior applications
- · Schools, healthcare facilities, sports complexes, corporate logos

Performance Data

- Provides daylighting without compromising security
- 45-minute fire-rated window assembly

pittsburghcorning.com 800.871.9918 | Tom McDonald



SNAP 213

PROTECTION BUILT INTO EVERY WALL™

ToughRock® Fireguard 45™ Gypsum Board

The only available standard 1/2-in. wallboard to be enhanced with fire resistance properties approved for 45-minute UL-classified fire-rated wall assemblies.

Product Application

· Replace standard or lightweight 1/2-in. wallboard with ToughRock® Fireguard 45™ Gypsum Board to increase a home's fire resistance

Performance Data

 Performs longer than competing lightweight 1/2-in. drywall in fire testing. Source: WFCI Report #14083.

www.buildgp.com/snap45 800.225.6119



SNAP 214

All products in this section are accessible on sweets.com.

MATERIALS

DYNAMIC GLASS

WR I GREEN I NEW

View

View Dynamic Glass seamlessly transitions through four variable tints to provide views without heat or glare.

Product Application

- · Humber River Hospital, Toronto, ON, Canada
- · 435 Indio, Sunnyvale, CA (net-zero energy project)
- · Hilton Universal City, Los Angeles, CA

Performance Data

- · Continuous views without excess heat or glare
- . Increased daylight and comfort with intelligent controls and energy savings

viewglass.com 408.263.9200 | Jeff Kersten



Booth: 717

SNAP 215

VERSATILE THIN STONE

WR I GREEN

Arriscraft

Comprehensive line of naturally made thin-clad stone products including ARRIS.tile and ARRIS.stack (thin adhered veneers) and ARRIS.clip (clipped to a channel system for back-drained rainscreen).

Product Application

- · Commercial and residential
- Interior and exterior applications

Performance Data

- · Exceed requirements for severe-weathering classification (ASTM C73-10)
- · Thin-adhered veneers, clipped or anchored rainscreen veneers

www.arriscraft.com



Booth: 3539

AIA Expo

SNAP 216

MATERIALS

MATERIALS

MATERIALS

PERFECT PAVER PALETTE

555

Belden Clay Pavers

The Belden Brick Company offers you more options in clay pavers than anyone in the world. You can choose from the widest palette of colors, textures and sizes.

Product Application

- · Carmel City Center
- · Architect: Pedcor Design Group, LLC
- · General contractor: Smock Fansler Corp

Performance Data

- · An ISO 9001:2008 Registered Quality Management System
- An ISO 14001:2004 Environmental Management System

www.beldenbrick.com

330.456.0031



SNAP 217

LEAVE LESS OF A FOOTPRINT ON YOUR NEXT PROJECT

Holcim - leading suppliers of cementitious materials

Customers have relied on Holcim for nearly a century to help them design and build better communities. The Envirocore line of eco-efficient products ensures you're building a more sustainable future.

Product Application

- · Blended cements
- · Masonry/mortar
- Cements supplementary
- · Cementitious materials · Portland cements

www.holcim.us 888.646.5246



Booth: 739

AIA Expo

SNAP 218

MATERIALS

MATERIALS

HEAT-REFLECTIVE CONCRETE & WOOD DECK COATING

SS | GREEN | NEW

TEX-COTE®

COOL-TEC™ is a revolutionary patented infrared heat-reflective coating for restoring worn or weathered concrete and wood deck surfaces.

Product Application

- · Concrete pool decks, patios and walkways
- · Wood decks, patios and walkways

Performance Data

- · Heat-reflective technology provides much cooler surface, enhanced durability and superior fade resistanceeven in dark colors
- · Easy primer-less, roll-on application

www.texcote.com

800.454.0340 | info@texcote.com

USE THE CARD

AND WINI



SNAP 219

ROOFTOP SUPPORT SYSTEM NEW | GREEN | \$

Haydon Corporation

H-Block®: Made from 100% post-consumer materials. LEED certifiable, Patented. Made in USA -ARRA compliant and meets the Buy American Act.

Product Application

- Pipe and conduit supports
- · Solar racking
- · Duct supports, HVAC supports
- Cable tray systems, roof walkway supports

Performance Data

- Independent laboratory tested
- · Dampens vibrations; no deterioration

www.haydoncorp.com

800.2HAYDON | contactus@haydoncorp.com



MATERIALS

SNAP 220

LINEAR METAL CEILINGS & WALLS

Acoustical Surfaces, Inc.

The Alumiline Linear System Panel is available in elegant 8', 10' or custom lengths. An excellent choice for external applications/high-humidity environments. Option: colors wrapped in wood laminate.

Product Application

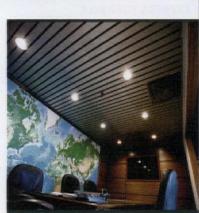
- · Schools, restaurants, residential, industrial
- · Hospitals, hotels, offices, airports, rail stations
- · Auditoriums, gymnasiums, swimming pools

· Arenas, retail, house of worship

Performance Data

- · Class A fire rated
- · Fast and easy installation

www.acousticalsurfaces.com 800.710.8792 | Jon Mestad

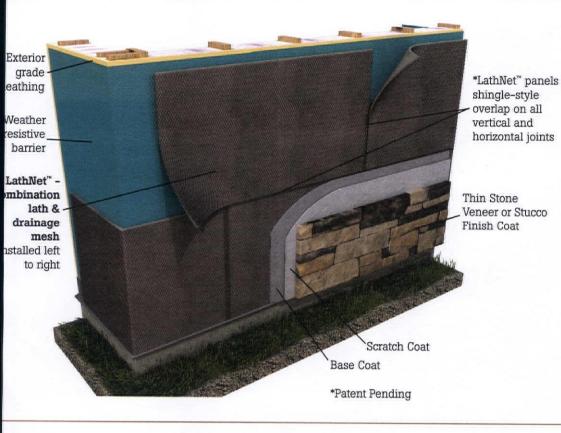


SNAP 221



NEW *LathNet™ -

Drainage Mesh and Metal Lath in One



□ LathNet

For Stucco and Adhered Masonry

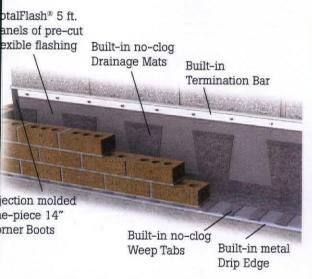
Install the metal lath and drainage plane in one simple step

- > Reduces labor time and costs
- Reduces wall penetrations
- Installs and performs just like regular metal lath
- Walls dry fast, stay drier than with lath alone

Call or email for samples: technicalservices@mortarnet.com



800.664.6638 mortamet.com



TotalFlash® - Complete Masonry **Cavity Wall Drainage Solution**

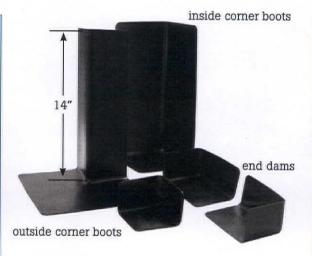
uts Flashing System Installation Time, elps Keep Veneer Walls Dry

5' (net) panels with flashing membrane, drainage mat, weep tabs, termination bar and drip edge

Applicable in all flashing locations, including base of wall, parapet walls, and above bond beams, wall openings and structural steel members

Perfect for new construction and masonry restoration

Available in EPDM, TPO, SR and PVC stabilized with Elvaloy® KEE



CompleteFlash - Industry-First 14" High Corner Boots, only from **Mortar Net Solutions**

The only corner boots that extend above standard flashing

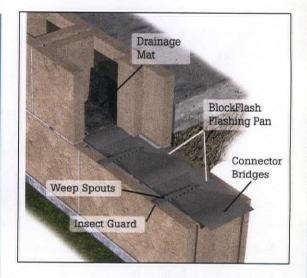
- > One-piece, injection molded
- > Highly puncture-resistant to prevent leaks
- Available in synthetic rubber/polypropylene blend (SR), TPO and PVC stabilized with Elvaloy® KEE

SNAP 79

Inside and outside corner boots, right, left and universal end dams available.



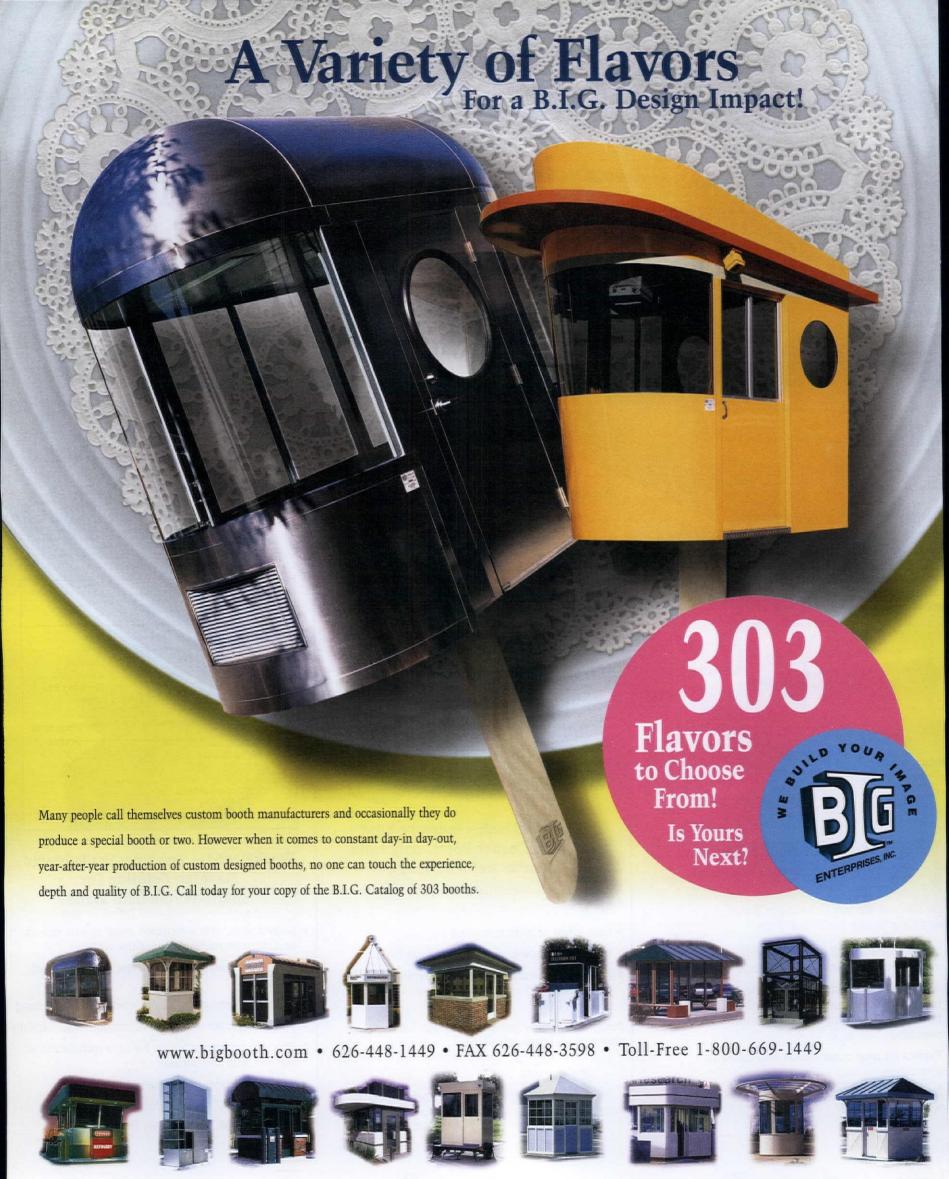
326 Melton Road Burns Harbor, Indiana 46304 Phone: 800.664.6638 Fax: 219.787.5088



BlockFlash® - The Only Embeddable Flashing Solution For Single-Wythe CMU Walls

- Sloped pans with integrated weep spouts collect and channel moisture out of the wall
- Up to 50% faster installation than through-wall flashing
- > Included drainage mesh prevents mortar damming
- > 10X stronger block bond than through-wall flashing
- Snap-off connector bridge for easy installation at grouted cells and corners
- > Integrated insect guards keep bugs out

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Shelters Gazebos Pavilions Pergolas Trellis

Entries Bridges Towers Kiosks Transit



Shelter Systems Inc www.iconshelters.com (800) 748-0985

Dare to be Different



Endwood Privacy Fence, Sable color, PostMaster Fence Post System

Master Halco's PostMaster fence post systems help you sell added value and earn more profit on each job by:

- Deliver more homeowner value
- Reduce callbacks*
- · Installing faster and easier
- · Lowering labor costs

For more information on how PostMaster can help maximize homeowner value while generating higher per job earnings, please contact your Master Halco Distribution Center or call -888-643-3623 or learn more at www.masterhalco.com.

*compared to wood fence post systems



Western Red Cedar Board-on-Board with Caprail and trim, PostMaster Fence Post System



A Tradition of Fencing Solutions

888-643-3623 MasterHalco.com

OGi Metal Grilles & Screens are the solution to many of your architectural needs





Product Features

- Manufactured from aluminum (shown here)
- Also available in carbon or stainless steel
- Aesthetically appealing while providing enhanced security
- Offers ventilation with open air designs
- Multiple styles and designs available
- Various finishes available
 - Anodized (bright brass & bright clear shown here)
 - Powder coat, galvanized, liquid PVDF, electropolished
- Made in the USA





All Photos:

Maplewood, MN

Maplewood Mall Transit Cente

OGi Architectural Metal Solutions

5299 Southway Street SW $\ \square$ Canton, OH 44706 $\ \square$ www.ohiogratings.com





Masaru Series LANDSCAPE CONTAINERS

Good design, fine craftsmanship, enduring material



4 sizes available High-strength, 6000+ PSI concrete Endless color options



PRODUCT SPOTLIGHTS

Specialty Products Pgs.	81-90
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Doors, Windows Pgs.	109-117
Materials	121-122
LANDSCAPING, SITEWORKPGS.	129
Electrical, Lighting Pgs.	131
Equipment	133
Mechanical Systems, HVAC, Plumbing Pgs.	135

LANDSCAPING, SITEWORK

CUSTOM SHELTER DESIGN & FABRICATION

ICON Shelter Systems Inc.

The experienced designers, structural engineers and CAD technicians at ICON can custom design any type of outdoor structure to meet your site requirements.

Product Application

- Wedding gazebo in Greenville, KY (shown)
- Custom arbor structure in Jersey City, NJ
- Smoking shelter at The Plaza in Chicago, IL

Performance Data

- · Structural steel e-coated and powder coated
- Custom designed to local building codes
- · Sealed engineering calculations and drawings

www.iconshelters.com 800.748.0985 | ben@iconshelters.com



Booth: 225

ASLA

SNAP 222

LANDSCAPING, SITEWORK

STEEL SECURITY FENCE

Ametco Manufacturing Corp.

Steel security fencing galvanized and powder coated. **Product Application**

- Westlake Library, Westlake, OH
- New York Botanical Gardens, New York, NY
- Morgan Hill Courthouse, Morgan Hill, CA

Performance Data

- Custom built to meet your requirements
- 20-year warranty on powder coating



www.ametco.com 800.362.1360 | Ludwig Weber

Booth: 1438

AIA Expo

SNAP 223

LANDSCAPING, SITEWORK

CUSTOM PLANTERS

WR

Planters Unlimited

Planters Unlimited designs and manufactures custom commercial-grade planters in an unlimited variety of materials, styles, colors and finishes.

Product Application

- · Hilton Miami Downtown, Miami, FL
- Hyatt Regency, Tulsa, OK
- · Niagara Parks, Niagara Falls, Ontario

Performance Data

- Commercial-grade materials to withstand outdoor elements
- Manufactured to meet your specifications

www.plantersunlimited.com 888.320.0626 | sales@plantersunlimited.com



SNAP 224

The Best Pavements Are Invisible

Grasspave²

grass porous paving



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Grave²

gravel porous paving



It's your building...access it SAFELY!





CALL (800) 868-9910









DESIGN COMPONENTS INC.

www.metalwalk.co www.designcomponents.co sales@designcomponents.co

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Doors, Windows	109-117
Materials	121-122
Landscaping, SiteworkPgs.	129
ELECTRICAL, LIGHTINGPGS.	134
Equipment	133
Mechanical Systems, HVAC, Plumbing	135

	ELECTRICAL, I	IGHTING
UNIVERSAL AIR TERMINAL BASE \$		
Independent Protection Company, Inc.		n
Universal mounting base for air terminals used in lightning protection system. Versatile sizes and fabricated for bronze and aluminum applications. Product Application Horizontally mounted position Vertically mounted position Fastened with screw or adhesive Performance Data Listed product with Underwriters Laboratories Product used in Class 1 & 2 installations		
vww.ipclp.com 800.860.8388 Jan Yoder	Universal Mounting Base	

ELECTRICAL, LIGHTING

GERM-KILLING HAND DRYER \$ | GREEN | NEW

American Dryer, Inc.

EXTREMEAIR with Cold Plasma Clean technology dries hands fast and kills germs without chemicals or filters.

Product Application

- · Schools, hospitals, airports, restaurants
- Office buildings
- · Anywhere germs are a concern

- · CPC technology is proven to kill: E.coli, Salmonella, Influenza A, Staph, C.diff and MRSA
- Fast: EXTREMEAIR dries hands completely in 10-12 seconds

americandryer.com 800.485.7003 | Sales



SNAP 226

ELECTRICAL, LIGHTING

LED RAIL LIGHT KITS FOR ALUMINUM RAILINGS WR I GREEN

Feeney, Inc. (DesignRail®)

Weatherproof, energy-efficient LED lighting kits for DesignRail® aluminum railings with high-bond installation adhesive strips, special snap-on lightdiffusing lenses and remote control dimmers.

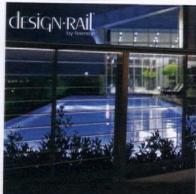
Product Application

- Fits all styles of DesignRail® aluminum railings
- · Residential, commercial, institutional settings
- · Outdoor lighting accent & visual aid for low-light areas

Performance Data

- · High CRI (80) LEDs, better color rendering, up to 50,000 hours
- 24 volt DC, fully weatherproof, plug & go components www.feeney6.com

800.888.2418 | Trang Nguyen-Soriano



SNAP 227



Acoustical Nonwoven Backing



The Sound Choice for **Energy Efficient Ceilings**

Key features and benefits:

- Superior Noise Reduction
- Permits airflow for efficient temperature transfer
- · Easy installation with chilling components

Freudenberg Performance Materials, LP

3500 Industrial Drive Durham, NC 27704

bill.mordecai@freudenberg-pm.com TEL: (919)620-7074

www.soundtex.com

SNAP 92

Freudenberg



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(877) 441-8368 | smartvent.com

CONSTR

HOW MUCH DO YOU KNOW ABOUT FLOOD VENTS?

Answers from BRIAN SHAW
Certified Floodplain Manager





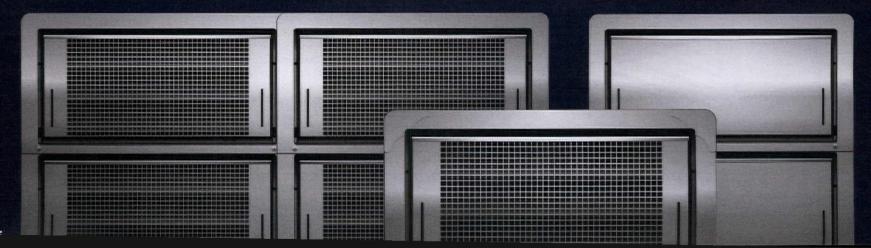
Flood Vents protect houses and buildings during floods by preventing hydrostatic pressure buildup that can destroy walls and foundations. This mitigation technique, referred to as Wet Floodproofing, allows floodwater to freely flow through an enclosure such as a crawlspace or garage.

When are Flood Vents required?

The NFIP Regulations and Building Codes require that any residential building constructed in Flood Zone Type A have the lowest floor, including basements, elevated to or above the Base Flood Elevation (BFE). Enclosed areas are permitted under elevated buildings provided that they meet certain use restrictions and construction requirements such as the installation of flood vents.



Smart Vents are the most advanced flood protection on the market with models ranging from Dual-Function to Insulated, for residential or commercial applications. Smart Vent has a team of Certified Floodplain Managers that can assist you with choosing the right Smart Vent Model(s) for the job, review project plans through their complimentary Flood Risk Evaluator Service, and answer any general floodplain design questions you may have.



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Doors, Windows	Pgs.	109-117
Materials		121-122
Landscaping, Sitework		129
Electrical, Lighting		131
EQUIPMENT	PGS.	133
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DISHWASHER \$\$ | NEW

Maytag® Home Appliances

Their Quietest Dishwasher Ever has all the cleaning power of the Maytag brand without the ruckus. They built this large-capacity dishwasher with tough stainless steel to take on the worst messes.

Performance Data

- · 4-blade stainless steel chopper
- Features PowerBlast™ rinse cycle
- · Premium ball-bearing rack glides
- Product SKU: MDB8969SDM

www.insideadvantage.com 800.253,1301



SNAP 228

EQUIPMENT

EQUIPMENT

EQUIPMENT

AUTOMATED GATE COMBINES SPEED & SECURITY

Wallace International

The FoldSmart bi-folding SpeedGate is user friendly with 24 field programmable options.

Product Application

- · Aviation industry
- · Corrections industry
- · Commercial/industrial industry
- · Transportation industry

Performance Data

- · Rapid open or close cycle-time of less than 8 seconds
- · Minimal footprint and operational clearance required
- · Built-in battery backup
- UL 325 listed and ASTM compliant

www.wallaceintl.com

866.300.1110 | wiinfo@wallaceintl.com



SNAP 220

EQUIPMENT

NEW IDEAS

The new IDEA™ line provides optimal touch performance, and is the best screen on the market for interactivity. New standard features include a magnetic surface and thin frame.

Product Application

- · Erasable
- · Compatible with any dry erase marker

Performance Data

· Hotspot free

www.da-lite.com/NewIDEAs 800.622.3737 | info@da-lite.com

SNAP 230

PATIENT LIFTS

Guldmann Inc.

Move, reposition or transfer patients up to 1,100 lb effortlessly. Safe for hospital installation in patient rooms, ER, ICU, CT Scan.

Product Application

- Lift 770 lb to 1,100 lb
- · X-Y Room covering rail reaches 4 corners of room
- · Continuous charge, no waiting

Performance Data

- . 30 years of quality, reliability and commitment, UL approved
- · 12-year life span, optional built-in weigh scale/ service/CLM

www.guldmann.net 800.664.8834



SNAP 231

EQUIPMENT

INDUSTRIAL TURNTABLES

Advance Lifts

Advance Lifts offers a full line of industrial turntables. They offer both manual and powered turntables with cam follower, caster and heavy-duty ring-bearing designs.

- Standard table sizes range from 2 ft x 2 ft to 8 ft x 8 ft with capacities up to 10,000 lb
- Custom sizes and capacities are available



www.advancelifts.com 800.843.3625

SNAP 232

stainless steel or

powder-coat finishes.

All products in this section are accessible on sweets.com.

\$\$\$= Premium cost | \$\$= Mid-range cost | \$= Value-oriented cost | WR = Wide range of price points | NC= No charge G = Product marketed as green | NEW = Released in the past 12 months



A California Company Toll-Free: (888) 317-5255

www.infradyne.com

No machine room. No control room. All you need is a hoistway.

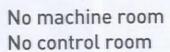
What will you do with the extra room?

Otis is proud to offer two great choices for design freedom.

The Gen2® and HydroFit™ elevator systems eliminate the need for machine and control rooms. With this extra room, you now have an array of new possibilities for your building space.











The Otis Gen2 and HydroFit systems are produced in our Florence, SC facility. These innovative products offer the following benefits:



Design Freedom



Green Technology



Smoothest Ride



Proven Reliability

OTIS © United Technologies

Learn more at www.us.otis.com

PRODUCT SPOTLIGHTS

Specialty Products	. Pgs.	81-90
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Roofing, Siding, Thermal & Moisture Protection	. Pgs.	101-104
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Electrical, Lighting	Pgs.	131
Equipment	Pgs.	133
MECHANICAL SYSTEMS, HVAC, PLUMBING	PGS.	135

Lodging: hotels, dorms, apartments Healthcare facilities

A member of Daikin Group

Product Application

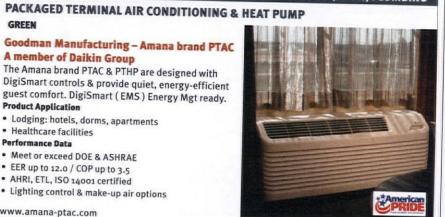
Performance Data

- Meet or exceed DOE & ASHRAE
- EER up to 12.0 / COP up to 3.5
- AHRI, ETL, ISO 14001 certified
- · Lighting control & make-up air options

www.amana-ptac.com

800.647.2982 | ptac.sales@goodmanmfg.com

The Amana brand PTAC & PTHP are designed with



MECHANICAL SYSTEMS, HVAC, PLUMBING

SNAP 233

MECHANICAL SYSTEMS, HVAC, PLUMBING

BARRIER-FREE TUB/SHOWER RECEPTORS

Florestone Products Co., Inc.

Florestone one-piece molded fiberglass shower receptors. Slip-resistant floor with off-set drain. Standard and barrier-free threshold option.

Product Application

- Bathroom remodeling projects with a conversion from
- a standard bathtub to a shower floor
- No relocation of plumbing connection is required **Performance Data**

- Cost-saving solution for bathroom remodels
- Easily replaces existing tub with no need to redo plumbing or move any walls

www.florestone.com 800.446.8827 | David Sotelo



SNAP 234

MECHANICAL SYSTEMS, HVAC, PLUMBING

IN-SINK DRAIN SYSTEM \$\$ | GREEN | NEW

Just Manufacturing

Integra Drain—seamlessly welded to sink, creates integral drain in-sink system, without additional parts or rings. Reduces leak potential. Includes basket strainer and tailpiece.

Product Application

- Commercial and residential applications
- · Ideal for healthcare environments

Performance Data

- Integral seamless sanitary drain system
- · Heavy-gauge stainless strainer
- Includes JSGN-8-6 self-adapting sensor mixing faucet

www.justmfg.com/ProductDetails?ProductID=4799 847.678.5150 | Specifier Services



SNAP 235

MECHANICAL SYSTEMS, HVAC, PLUMBING

INFECTION-CONTROL SINK NEW

Willoughby Industries

Designed to minimize splattering & reduce the spread of infectious disease, WICS Series infectioncontrol sink keeps water from splashing directly into the drain & aerosolizing contents in trap.

Performance Data

- Seamless one-piece solid-surface lavatory deck
- · Offset drain position w/ indirect path to drain
- Oversized backsplash
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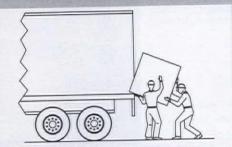
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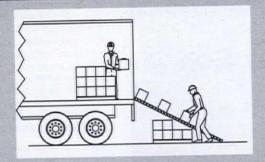
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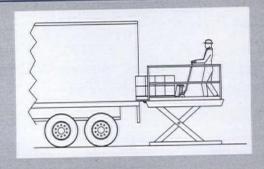
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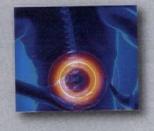


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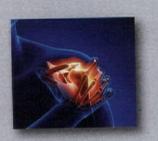


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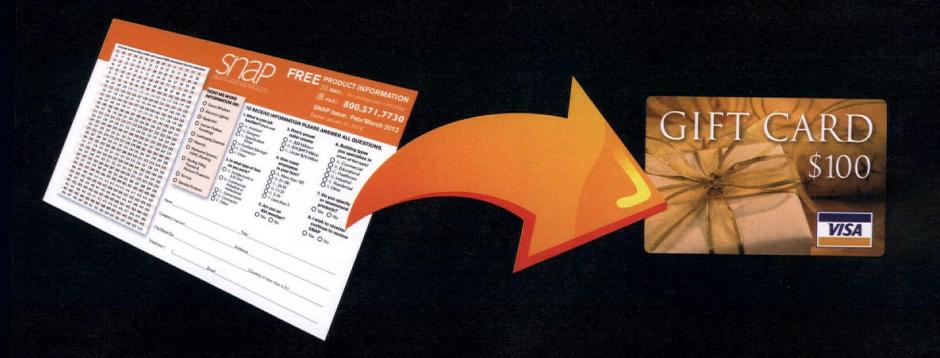
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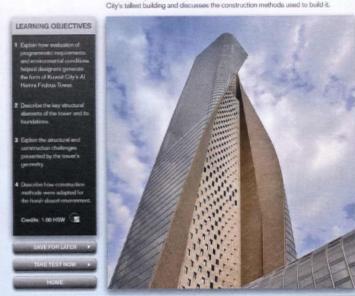
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NEW AND UPCOMING EXHIBITIONS

Saving Place: 50 Years of **New York City Landmarks**

NEW YORK CITY

April 21-September 13, 2015 The Museum of the City of New York presents this comprehensive exhibition exploring the transformative impact that the Landmarks Preservation Commission has had on the five boroughs. Through original documents, drawings, and artwork, Saving Place traces the roots of preservation efforts as well as the galvanizing effect that mid-century urban renewal wrought on the movement. For more information, visit mcny.org.

Designing Healthy Communities: Active Design and Its Impact

ATLANTA

April 26-July 19, 2015

The design of the physical environment greatly impacts our well-being. In turn, architects, interior designers, and urban planners are supporting healthy lifestyles with active design an approach to the development of buildings and neighborhoods that makes daily physical activity and wholesome foods more accessible and inviting. Held at the Museum of Design Atlanta, Designing Healthy Communities will explore specific active-design strategies that promote exercise and healthy living, highlighting real-world examples. For more information, visit museumofdesign.org.

Folly 2015: Torqueing Spheres LONG ISLAND CITY, NEW YORK

May 17-August 30, 2015

Socrates Sculpture Park and the Architectural League of New York launched the Folly program in 2012 to explore the intersections and divergences between architecture and sculpture. Through an annual juried selection, Folly provides an opportunity for one emerging architect or designer to build a project in the sculpture park located on the Queens waterfront. Cambridge, Massachusetts- and Philadelphia-based firm IK Studio won this year's competition with its proposal Torqueing Spheres, which transforms intertwining, sculpted forms into a series of spaces that encourage both social interaction and individual reflection. For more information, visit archleague.org.

Frank Gehry

LOS ANGELES

September 13, 2015-March 20, 2016 Not only has Frank Gehry revolutionized the vocabulary of the built environment but he has also elevated architecture's role in the city. At the Los Angeles County Museum of Art, the legendary talent presents a comprehensive examination of his work, dating from the early 1960s to the present. The retrospective features more than 200 drawings—some never seen before—and 65 models that illuminate the creative evolution of its namesake. The exhibit focuses in particular on the development of Gehry's urbanistic thinking. It also traces his firm's innovation with digital design and fabrication tools including CATIA, a software tool first employed in the aeronautics and automobile industries to manipulate 3-D representations. For more information, visit lacma.org.

ONGOING EXHIBITIONS

The Architectural Image, 1920-1950: Prints, Drawings, and Paintings from a Private Collection

WASHINGTON, D.C.

Through May 3, 2015

Between 1920 and 1950, architecture changed more profoundly and rapidly than it did during any similar period in history. The changing tastes, theories, and obsessions of the era were often documented by prominent artists who found architecture and construction compelling subject matter. The National Building Museum is presenting an exhibition of 70 prints, original drawings, and paintings from this fertile period in architectural history, all drawn from the collection of Washington, D.C., architect David M. Schwarz. The works offer glimpses into Howard Cook's and Charles Turzak's personal impressions of the built environment, along with those of other artists. For more information, visit nbm.org.

One Way: Peter Marino

MIAMI BEACH, FLORIDA

Through May 3, 2015

American architect Peter Marino's forwardthinking work exists at the intersection of art, fashion, and design. Curated by Jérôme Sans, this exhibition at the Bass Museum of Art explores the interplay between Marino's iconic spaces and his personal collection of contemporary art—which includes pieces by Loris Gréaud, Keith Haring, Richard Serra, Rudolf Stingel, and Andy Warhol alongside newly commissioned works. For more information, visit bassmuseum.org.

Sink or Swim: **Designing for a Sea Change**

LOS ANGELES

Through May 3, 2015

Through the work of a select group of architecture and fine art photographers as well as photojournalists, Sink or Swim examines climate change in densely populated coastal regions—and contemporary design as a means to navigate this problem. Curated by architecture writer and radio host Frances Anderton with the Annenberg Space for Photography, the exhibit features newly commissioned and archival works by Iwan Baan, Stephen Wilkes, Paula Bronstein, Jonas Bendiksen, and Monica Nouwens. The artists document resilience in all socioeconomic conditions, with strategies ranging from survivalist adaptation to ambitious infrastructure planning. Images also show innovative homes and community buildings by such leading architects as Thom Mayne and Toyo Ito. For more information, visit annenbergspaceforphotography.org.

Uneven Growth: Tactical Urbanisms for Expanding Megacities

NEW YORK CITY

Through May 10, 2015

As the world's population approaches 8 billion, city authorities, urban planners and designers, economists, and others will need to work together to ensure expanding megacities remain habitable. To encourage this international debate, Uneven Growth at the Museum of Modern Art showcases possible design interventions for six such cities— Hong Kong, Istanbul, Lagos, Mumbai, New York, and Rio de Janeiro—conceived by six interdisciplinary teams. Their proposals show how emergent forms of tactical urbanism can

respond to the evolving nature of public space, housing, mobility, and other issues in near-future urban contexts. For more information, visit moma.org.

Moderno: Design for Living in Brazil, Mexico, and Venezuela, 1940-1978

NEW YORK CITY

Through May 16, 2015

The mid 20th century proved one of the most innovative periods in the history of Latin American interior design. Moderno, on view at Americas Society, is the first-ever exhibit that the full creative dialogue taking place in Latin America during this transformational moment. It brings together roughly 80 pieces of one-of-a-kind and mass-produced furniture, ceramics, metalwork, textiles, and printed material, many of which will be exhibited for the first time. A fully illustrated hardcover catalogue and one-day international symposium accompany the show. For more information, visit as-coa.org.

Sketch to Structure

PITTSBURGH

Through May 20, 2015

Sketch to Structure lays out the architectural design process in such a way that visitors can clearly see how buildings take shape. With sketches, plans, blueprints, renderings, and models from the Heinz Architectural Center collection, this exhibition at the Carnegie Museum of Art reveals that the path from initial concept to client presentation is anything but a straight line. The exhibition is divided into four sections: Concept, Collaboration, Communication, and Case Studies. For more information, visit cmoa.org.

Prague Functionalism: Tradition and Contemporary Echoes

NEW YORK CITY

Through May 23, 2015

This exhibition premiers stateside at the Center for Architecture; Prague Functionalism is also the venue's first major exhibition to focus on Eastern European design, presenting Prague's Functionalist heritage in a variety of media. The show's first section focuses on projects from the 1920s and '30s; the second presents contemporary projects influenced by Czech Functionalism. The exhibition, which first opened at Prague's Jaroslav Fragner Gallery, will include models of historic and contemporary buildings, Czech furniture and industrial design from the era, and a to-scale reproduction of a 1930s-era housing unit. For more information, visit cfa.aiany.org.

A Home for Art: Edward Larrabee Barnes and the KMA

KATONAH, NEW YORK

Through June 28, 2015

The Katonah Museum of Art will mark the silver anniversary of its landmark Edward Larrabee Barnes building with a retrospective of the legendary architect's work in surrounding Westchester County, where he resided. A survey of Barnes's career and seminal role in modern architecture, it closely examines his numerous residential projects, with special attention devoted to his design of the Katonah Museum as a hybrid of personal expression and institutional architecture. For more information, visit katonahmuseum.org.

Book for Architects

NEW YORK CITY

Through July 5, 2015

Wolfgang Tillmans's installation Book for Architects is on view at the Metropolitan Museum for the first time since its debut at the 2014 Venice Architecture Biennale. To produce Book, the German-born Tillmans photographed buildings in 37 countries on five continents over the course of a decade. The resulting 450 images are presented in a site-specific, two-channel video installation projected onto perpendicular walls. The project shows architecture through Tillmans's eyes, expressing the complexity, irrationality, madness, and beauty of quotidian buildings, street patterns, and fragments of spaces. For more information, visit metmuseum.org.

Modeling the Synagogue— From Dura to Touro

Through July 5, 2015

This Yeshiva University Museum exhibition is a collection of small wonders: 10 remarkably detailed, architecturally accurate models of some of history's most significant synagogues. The maquettes reflect the geographic and cultural breadth of the Jewish world across the centuries, from the ancient Mediterranean Dura-Europos in 3rd-century Syria and Beit Alpha in 6th-century Galilee to modern America and Europe—namely Touro in 18th-century Newport, Rhode Island, and Tempio Israelitico in 19th-century Florence. The museum commissioned the models in 1973 to correspond with its opening. For more information, visit yumuseum.org.

LECTURES, CONFERENCES, AND SYMPOSIA

2015 SAH Annual International Conference: Chicago at the Global Crossroads

CHICAGO

April 15-19, 2015

The Society of Architectural Historians (SAH) will celebrate its 75th anniversary during this conference, which features lectures, roundtables, and 36 paper sessions covering topics in architecture, art and architectural history, preservation, landscape architecture, and the built environment. SAH is committed to engaging conference attendees with public programming of more than 30 architectural tours, a plenary talk, and a half-day seminar that addresses Chicago's waterways and neighborhoods. For more information, visit sah.org/2015.

Ideas City 2015

NEW YORK CITY

May 28-30, 2015

The 2015 edition of Ideas City is the third biennial festival of its type, organized by the New Museum in partnership with the Architectural League of New York, the Bowery Poetry Club, the Cooper Union, the Drawing Center, and the Storefront for Art and Architecture. The Invisible City, the event's theme, is an invitation to explore the question of visibility and related dynamicstransparency and surveillance, citizenship and representation, expression and suppression, and participation and dissent—as defining forces within the contemporary city. For more information, visit ideas-city.org.



AIA Convention 2015: May 14-16, Atlanta

Get on the A-list! Visit aia.org/convention





Strength in Numbers

Design & Construction Week builds on its inaugural success, with new partners, new products, and a boost in attendance.

SYNERGY AGAIN WORKED its magic at the second annual Design & Construction Week, held in January at the Las Vegas Convention Center. This year, the International Builders Show (IBS), Kitchen and Bath Industry Show (KBIS), and International Window Coverings Expo welcomed some 125,000 residential building and design professionals as well as new partners: the Las Vegas Market and the International Surface Event. The result, according to the National Association of Home Builders, was a breathtaking 3,750 exhibitors with wares displayed across 4.7 million square feet.

At IBS alone, 55,237 visitors—an 8 percent increase from last year-turned out to see noteworthy product debuts from more than 1,200 exhibitors. The wide array included Huber Engineered Woods' ZIP System stretch tape, a highly elastic, repositionable flashing tape that negotiates difficult areas (sills, curves, corners) with a single piece. Aquabrass's Aquazone combines a tub and separate shower area into a wet-zone unit that installs in a 60-inch-square space. Dual drains eliminate the need for a tub overflow, while optional ipe wood panels transform the tub into a shower seat. NanaWall Systems showed off its SL80/81 Folding Series with a dramatic 33-foot-wide installation. The thermally broken glass-wall system, one of the slimmest on the market with its 11%-inch profile, achieves U-values as low as 0.22.

Other IBS standouts took on trending topics such as smart home technology and indoor air quality. Schlage Sense, an Apple HomeKit-enabled lock system, grants keyless home access from an iPhone, iPad, or iPod Touch and responds to voice control via Siri. Users can create up to 30 individual access codes and remotely monitor lock status. In appliances, the BEST Cattura downdraft ventilation system measures a lofty 18 inches high for maximum capture of cooking emissions. Flexible blower positioning accommodates a variety of cooktop and range configurations. Also clearing the air: Pure Genius Smart Floors, by Best of IBS Awards

Green Building Product winner Lauzon, whose light-activated titanium-oxideenhanced finish neutralizes harmful VOCs.

The innovations proved no less impressive at KBIS, where attendance rose 5 percent and the show floor gained 500,000 square feet. Highlights were Brizo's new Artesso and Solna models, which put an industrial spin on the kitchen pull-down faucet by replacing the traditional gooseneck design with an exposed hose and spray wand magnetically secured to an articulating arm. Moen's new Mosaic body spray installs completely flush with the wall and boasts two toggle-operated spray functions. At Walker Zanger, the Sterling Row collection of porcelain tiles—with striated wood-look elements and white marble accents—offered eight designs referencing elegant suiting and Art Deco.

After a two-year absence, GE returned to both shows with splashy introductions. At IBS, the company drew attention with its Café refrigerator, whose door features a Keurig coffeemaker. At KBIS, its Monogram induction cooktop was memorable for its glide control and optional sous-vide accessory that clips to any pot.

The co-location of IBS and KBIS has energized both shows and will continue through 2020. The third Design & Construction Week, also planned for Las Vegas, will run from January 19 to 21, 2016. —Alice Liao

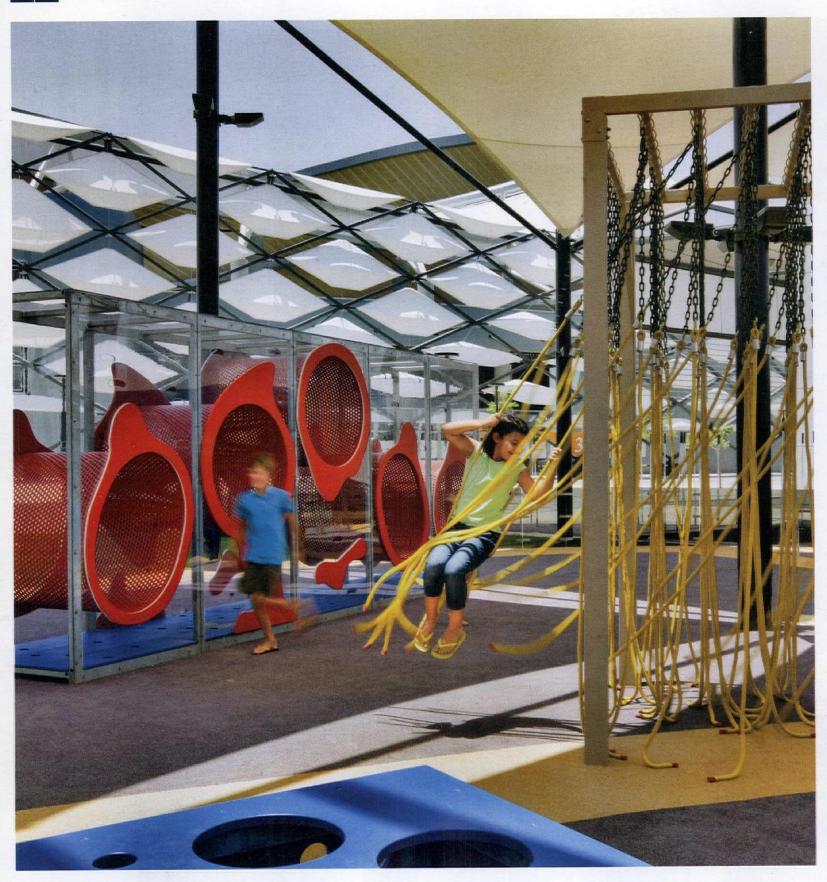


GOOD 'N PLENTY

IBS ranged from a GE refrigerator that makes Keurig coffee (above) to Huber's stretch ZIP System tape (left), for easily sealing difficult areas, and NanaWall Systems' ultraslim, energyefficient SL80/81 Foldingseries (below, far left). New products, such as this Mosaic flush-mount adjustable body spray by Moen (below left), abounded at KBIS as well.







DAVID LEWIS remembers running and hiding in the fields of Wooster, Ohio, amid cornstalks taller than he was. As coprincipal of New York-based firm LTL Architects—along with brother Paul Lewis and Marc Tsurumaki—he channeled that experience into the Cornfield, one of four sensory-focused jungle gyms in the Free Play series. "Most play structures have a prescribed purpose," says Lewis. "But these offer kids limitless ways to interact with the structures and each other." Dan Schreibman, Free Play founder and CEO, worked with developmental psychologists and play experts to devise design-competition criteria, then spent years translating LTL's winning concepts into marketable USA-made structures. All are built of durable materials: polycarbonate tubes with vinyl caps compose the Cornfield; steel with polycarbonate climbing walls for the Ant Farm; high-density polycarbonate cubes in the Maze; and a welded steel structure with a rope and chime canopy for the Weeping Willow. The United Arab Emirates hosted the inaugural installations, and Schreibman expects launches in Australia, Hong Kong, and Korea in the coming years. (SNAP #79)







MARC TSURUMAKI **DAVID J. LEWIS**

Playground equipment was no stretch for LTL, an Architectural Record Design Vanguard in 2000; the firm embraces such creative opportunities. The brothers Lewis met Marc Tsurumaki at Princeton, where all were pursuing M.Arch. degrees Launched in 1992, the firm has built an award-winning portfolio in the academic, institutional, residential, and hospitality industries.

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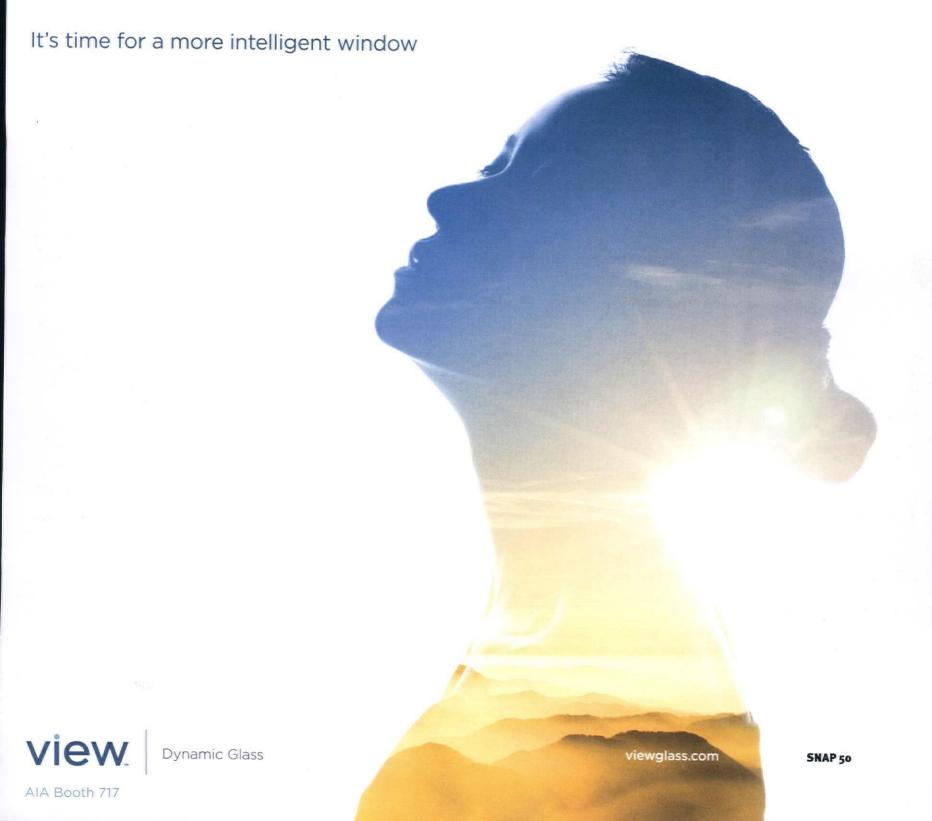


SCHREIBMAN

Schreibman was workingasa management consultant when observations of his two kids-and research into the playground industry-inspired him to carve out a niche for open-ended playstructures.

freeplayplay grounds.com

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